Sabina, Sabina II EE, EM

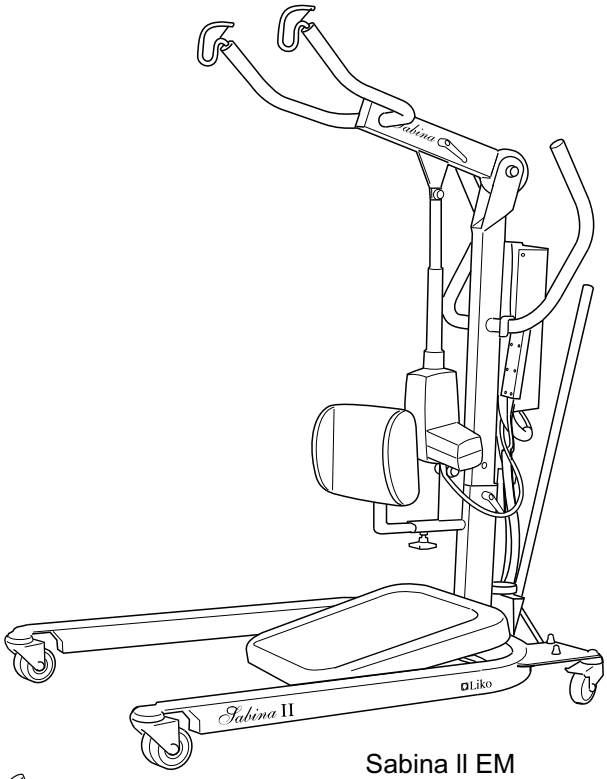
Service Manual

English

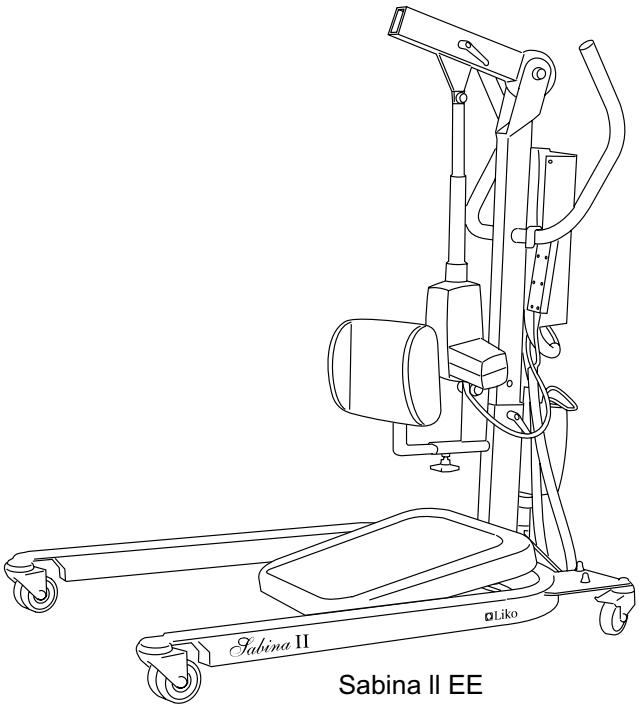
Prod. No. 2020003 Sabina II EE
2020004 Sabina II EM

3EN550401-05
2010-04-01

Proj 1059



Sabina II EM



Sabina II EE

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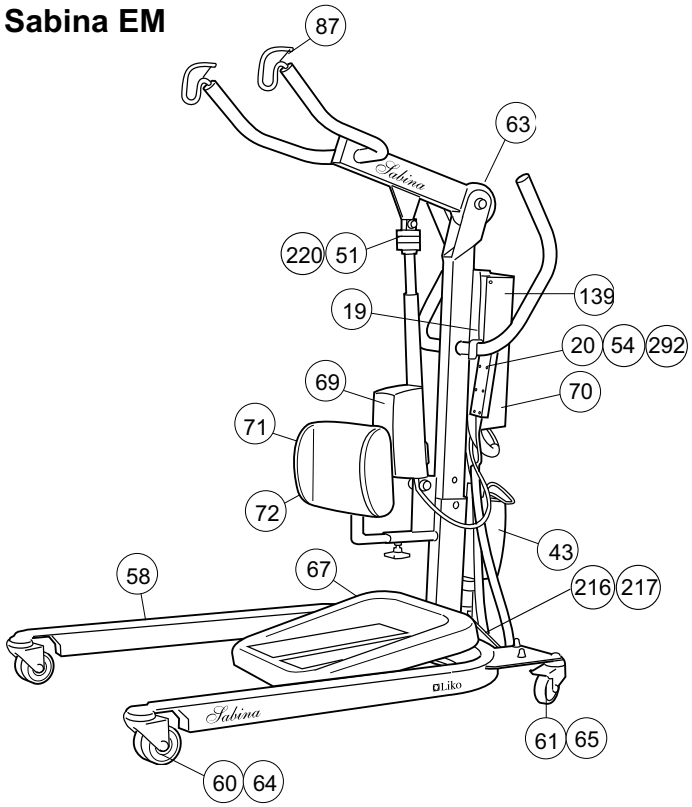
Spare Parts Positions

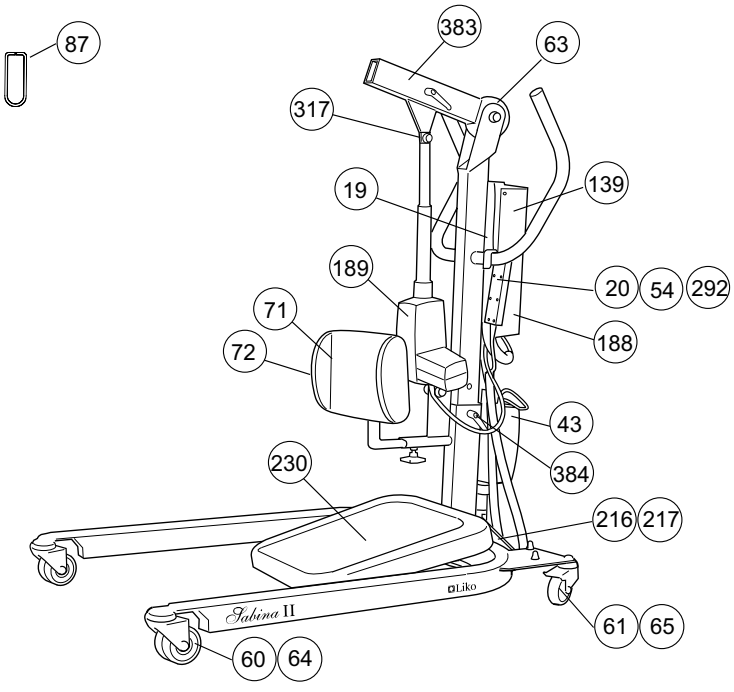
PROD. NO.	PRODUCT
2020001 2020002	Sabina EE Sabina EM

PROD. NO.	PRODUCT
2020003 2020004	Sabina II EE Sabina II EM

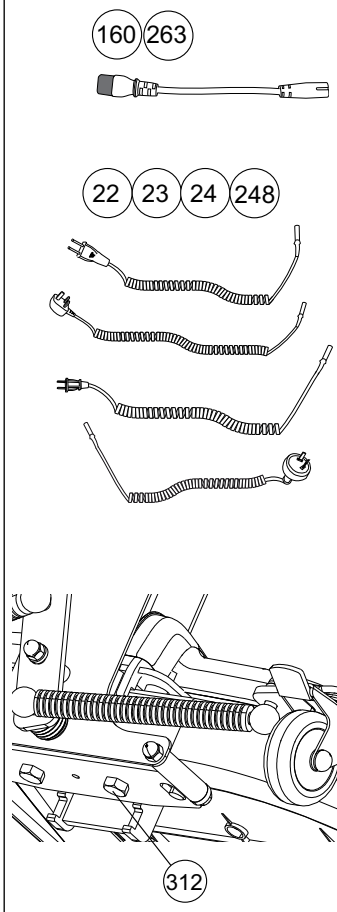
Sabina EE, Sabina EM



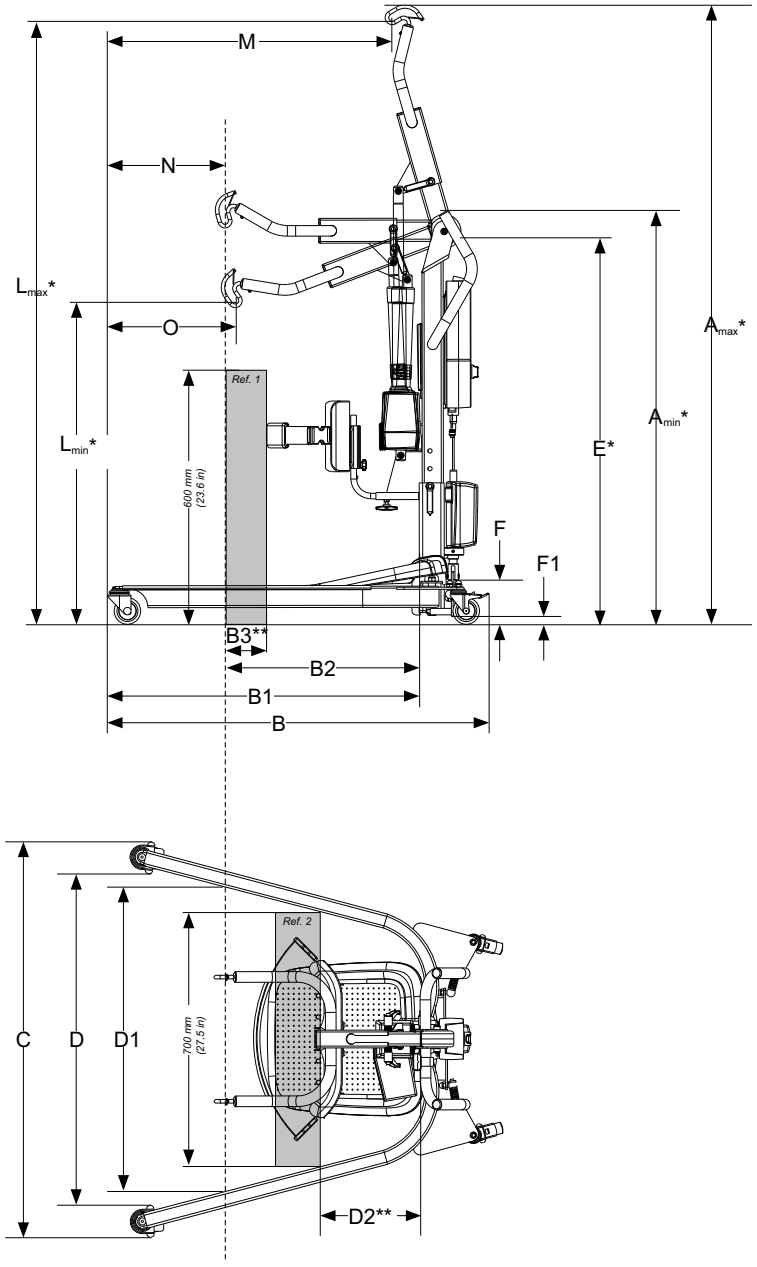
Sabina II EE, Sabina II EM



Fits Sabina, all models:



Technical Data



Measurements **(mm.)**

Sabina II EE / EM	A_{min}*	A_{max}*	B	B1	B2	B3	C	D	D1	D2**	E*	F	F1	Lmax*	Lmin*	Lifting interval	M	N	O
SlingBar 350	1050	1770	1060	870	590	190	690-1115	530-1005	915	210	900-1000	107	22	1725	800	825	790	280	310
Comfort SlingBar	1050	1750	1060	870	555	150	690-1115	530-1005	900	210	900-1000	107	22	1695	810	785	790	315	340

(inch.)

Sabina II EE / EM	A_{min}*	A_{max}*	B	B1	B2	B3	C	D	D1	D2**	E*	F	F1	Lmax*	Lmin*	Lifting interval	M	N	O
SlingBar 350	41.3	69.6	41.7	34.2	23.2	7.5	27.2-44.9	20.9-39.5	36.0	8.2	35.4-39.3	4.2	0.9	67.9	31.5	32.5	31.1	11.0	12.2
Comfort SlingBar	41.3	68.9	41.7	34.2	21.8	5.9	27.2-44.9	20.9-9.5	35.4	8.2	35.4-39.3	4.2	0.9	66.7	31.8	30.9	31.1	12.4	13.4

* Different measurements depending on the height-setting position, please see ”Assembly”, p. 5. Note! The measurements are based on the lift being equipped with standard wheels. When changing wheels, check that the lift still achieves desired lifting height.

** Reference measurement according to Standard EN ISO 10535:2006.

Technical Data

Maximum load:	Active lifting: 200 kg (440 lbs) Passive lifting: 150 kg (330 lbs)
Material:	Powder-painted steel.
Weight:	Total: 45,2 kg (100 lbs) Heaviest removable part: 22,7 kg (50 lbs)
Wheels:	Standard front: 75 mm twin wheel. Standard back: 75 mm individual wheel fitted with brake
Foot rest:	Removable.
Lower-leg support:	Adjustable in terms of height and depth. Removable.
Turning diameter:	1180 mm (46.5 in.)
Emergency lowering device:	Mechanical and electrical.
Lifting Speed (without load):	SlingBar 350: 54 mm/s (2.13 in./s) Comfort SlingBar: 47 mm/s (2.1 in./s)
Maximum Noise Output:	46 dB(A)
Protection class:	IP 43
Operating forces of controls:	2.4 N
Intermittent operation:	Int. Op 10/90, active operation max 2 min. Only 10% of a given length of time may be active, yet no more than 2 min.
Batteries:	2 x 12 V 2.9 Ah. Valve-regulated lead-acid gel-type batteries.New batteries are provided by the supplier.
Battery charger:	Built-in charger for 100-240 VAC, 50-60 Hz, max 400 mA.
Lift motor:	24 V 9,2 A, permanent magnetic motor with mechanical safety mechanism.
Motor base:	24 V, 5 A, permanent magnetic motor.

The device is intended for use indoors.

Type B, in accordance with the electrical shock protection class.

Class II equipment.

Troubleshooting

The lift does not go up/down. Base width adjustment does not work (in/out).

1. Check that the emergency stop has not been engaged
2. Make sure that the cables to the control box are connected correctly.
3. Make sure that the charging cable is not connected to a socket.
4. Check the battery voltage.
5. Check that the battery's contact plates are not defective or broken.
6. *If the lift still does not work properly, please contact Liko.*

The charger doesn't work.

1. Check that the emergency stop has not been engaged
2. Check that the battery's contact plates are not defective or broken.
3. *If the lift still does not work properly, please contact Liko.*

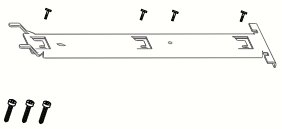
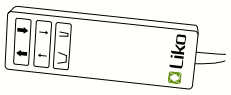
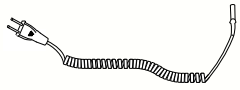
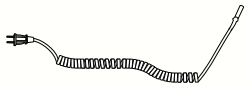
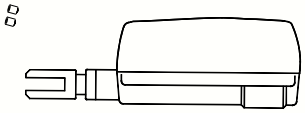
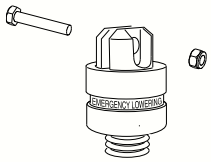
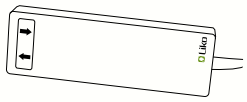
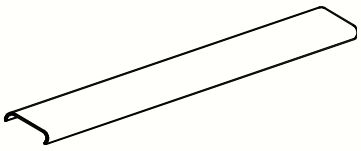
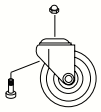
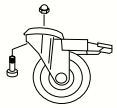
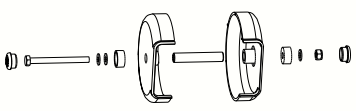
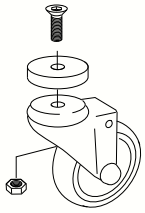
The lift is stuck in a high position.

1. Check that the emergency stop has not been engaged
2. Use the selected electrical emergency lowering device to lower the patient onto a firm surface.
3. Use the selected mechanical emergency lowering device to lower the patient onto a firm surface.
4. Check the battery voltage.
5. *If the problem remains, please contact Liko.*

If you hear unusual sounds.

Contact Liko.

Spare Parts List

Sabina, Sabina II EE, EM				
PROD. NO.	POS. NO.	NAME	UNIT	
20090023	19	Attachment for Control Box	pce	
20090024	20	Hand control ES 6-Button (fits Sabina EE / Sabina II EE)	pce	
20090026	22	Cable for Charging EU	pce	
20090027	23	Cable for Charging UK	pce	
20090028	24	Cable for Charging US	pce	
20190003	43	Actuator for Base Widening (fits Sabina EE / Sabina II EE)	pce	
20190011	51	Emergency Lowering Device	pce	
20190016	54	Hand control EM 2-Button (fits Sabina EM / Sabina II EM)	pce	
20190029	58	Leg Protector U1,Sa	pair	
20190042	60	Front Wheel 75 mm	pce	
20190043	61	Rear Wheel 75 mm	pce	
20190045	63	Lift Arm Plastic Cover	set	
20190046	64	Front Wheel 100 mm	pce	

Spare Parts List

Sabina, Sabina II EE, EM				
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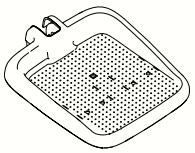
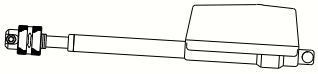
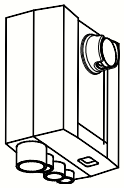
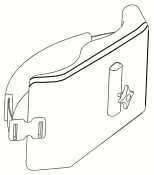
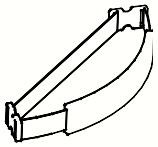
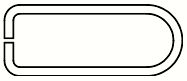
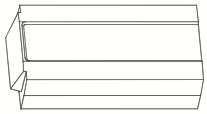
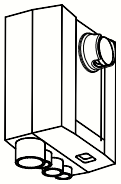
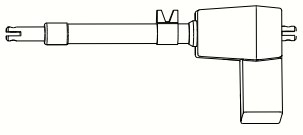
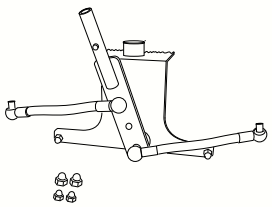
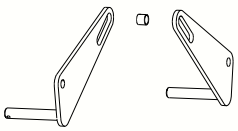
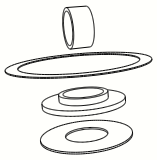
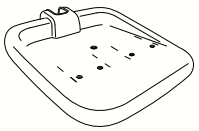
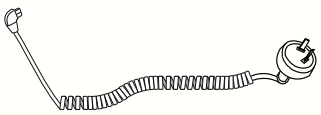
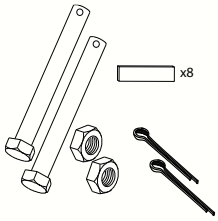
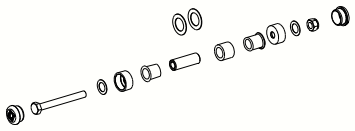
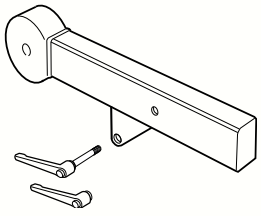
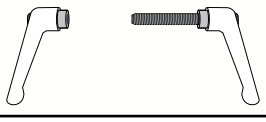
20190047	65	Rear Wheel 100 mm	pce	
20290006	67	Foot Tray complete, Sa	pce	
20290008	69	Actuator JKAS 250 G Sa	pce	
20290011	70	Control Box Sa	pce	
20290021	71	Leg Support	pce	
20290022	72	Strap for Leg support	pce	
31190018	87	Safety Latch	pair	
2006106	139	Extra Battery box, incl. Batteries	pce	
21090001	160	Extension Cable	pce	
20290024	188	Control Box Sa II	pce	
20290023	189	Actuator Sa II	pce	
20190049	216	Restoration set Manual Base	set	

Spare Parts List

Sabina, Sabina II EE, EM				
PROD. NO.	POS. NO.	NAME	UNIT	
20190050	217	Restoration set Electrical Base	set	
20190051	220	Restoration set Emergency Lowering	set	
20290026	230	Foot Tray cover , Sa II	pce	
20090050	248	Cable for Charging AU/NZ	pce	
21090011	263	Extension Cable US	pce	
20090058	292	Hook for Hand control 2,4,6	pce	
20190057	312	Screw M12x105 U1-2, Sa	pce	
20290029	317	Pivot point actuator Sa II	set	
2027010	383	Sabina Lift Arm incl. Locking Handles	set	
2107101	384	Locking handles (Sabina, Uno)	pair	

Attachment for Control Box
Monteringsbeslag kontrollbox

Assembly Instruction
Monteringsanvisning

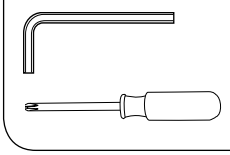
Prod no: 20090023

3SE630238-03
2009-11-13

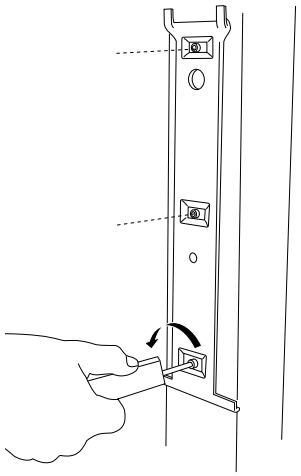
Contains:	**Qty:**
Screw MRT-GF M5x16	3
Screw MCL6S M5x8	4
Control box attachment pl	1

Fits:
Golvo 7000ES/7007ES
Uno 100 EM/EE
Uno 102 EM/EE/ES
Sabina EM/EE
Sabina II EM/EE
Viking XL
Viking L
Viking M (prod. no. 2040005)

Tools required:



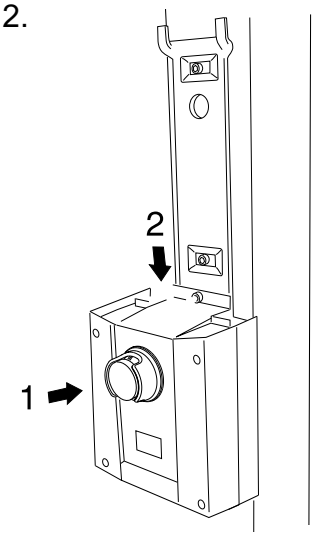
1.



x 3 (Viking M, L, XL, Golvo 7000ES/7007ES)

x 3 (Sabina, Uno)

2.



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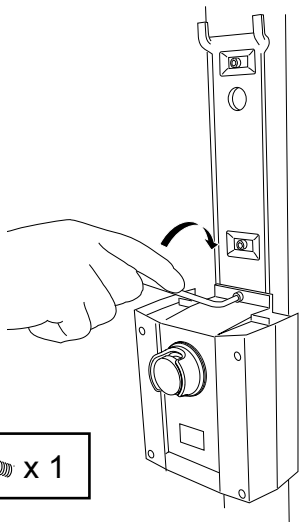
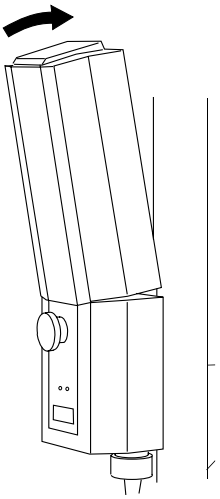


x 1

4.



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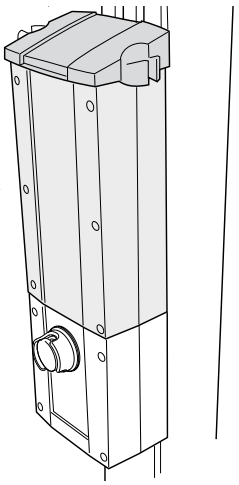


⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Hand Control 2, 4, 6-button
Handkontroll 2, 4, 6-knapp

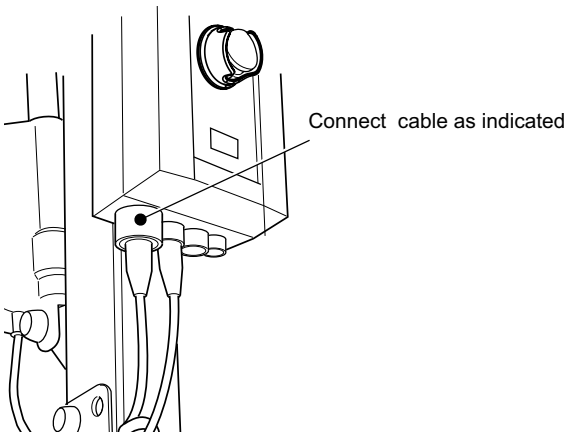
Assembly Instruction
Monteringsanvisning

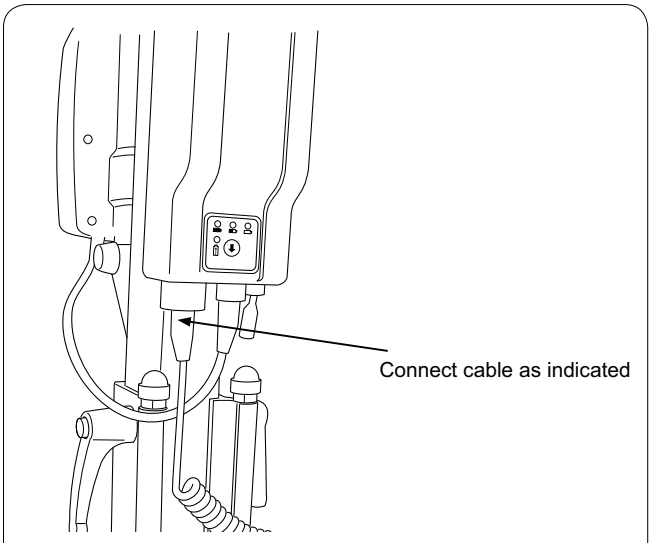
Prod. No. 20090024
20190016
20190017

3SE630204-08
2009-11-04

Contains:	**Qty:**
Hand control EM, EE, ES	1

Fits:
Golvo 7000ES/7007ES
Uno 100 EM/EE
Uno 102 EM/EE/ES
Sabina EM/EE
Sabina II EM/EE
LikoLight
Viking XL
Viking L
Viking M (prod. no. 2040005)
Viking S
Viking XS





⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Cable for Charging, EU
Laddningskabel EU

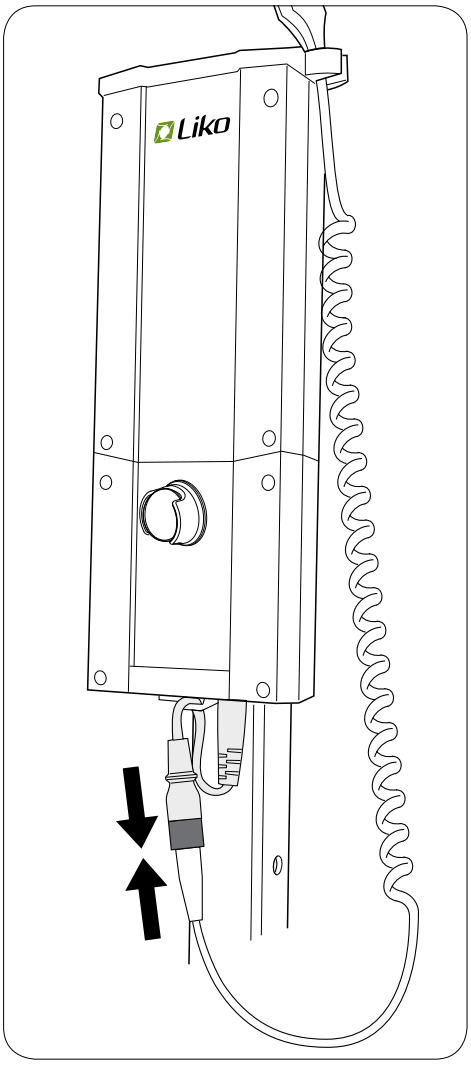
Assembly Instruction
Monteringsanvisning

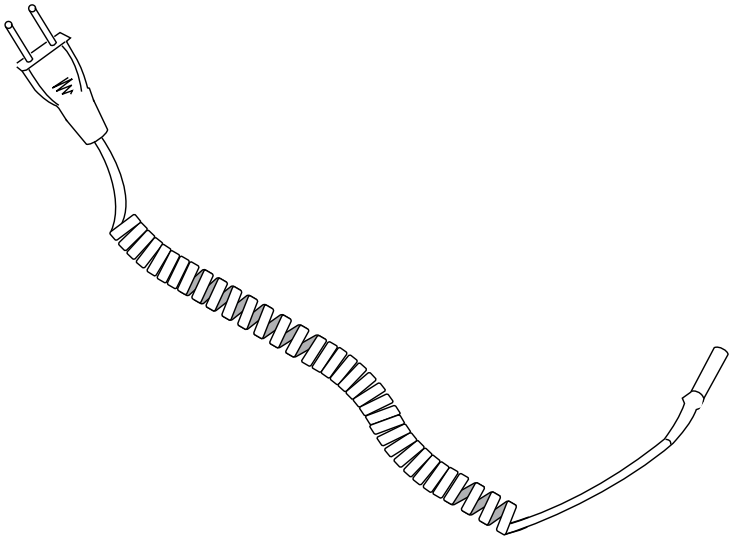
Prod. No. 20090026

3SE630237-03
2009-11-04

Contains:	**Qty:**
Charging cable EU	1

Fits:
Golvo 7000ES/7007ES
Uno 100 EM/EE
Uno 102 EM/EE/ES
Sabina EM/EE
Sabina II EM/EE
Viking XL
Viking L
Viking M





⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Cable for Charging, UK
Laddningskabel UK

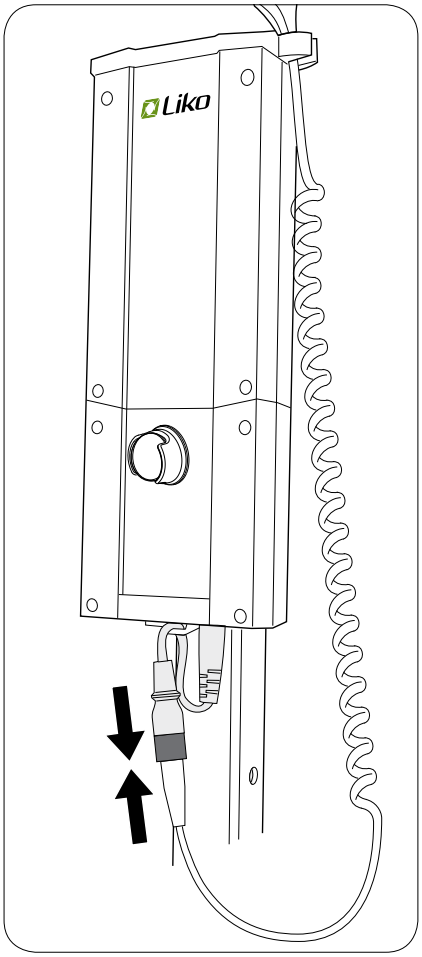
Assembly Instruction
Monteringsanvisning

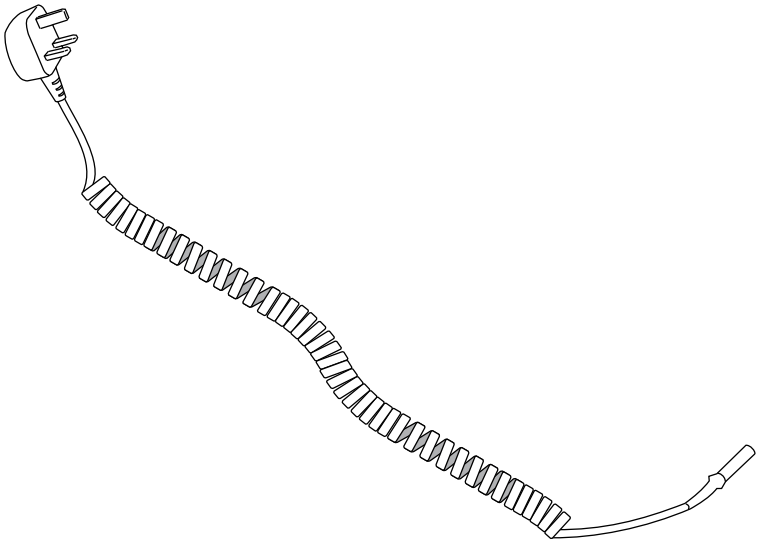
Prod. No. 20090027

3SE630241-03
2009-11-04

Contains:	**Qty:**
Charging cable UK	1

Fits:
Golvo 7000ES/7007ES
Uno 100 EM/EE
Uno 102 EM/EE/ES
Sabina EM/EE
Sabina II EM/EE
Viking XL
Viking L
Viking M





⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Cable for Charging, US
Laddningskabel US

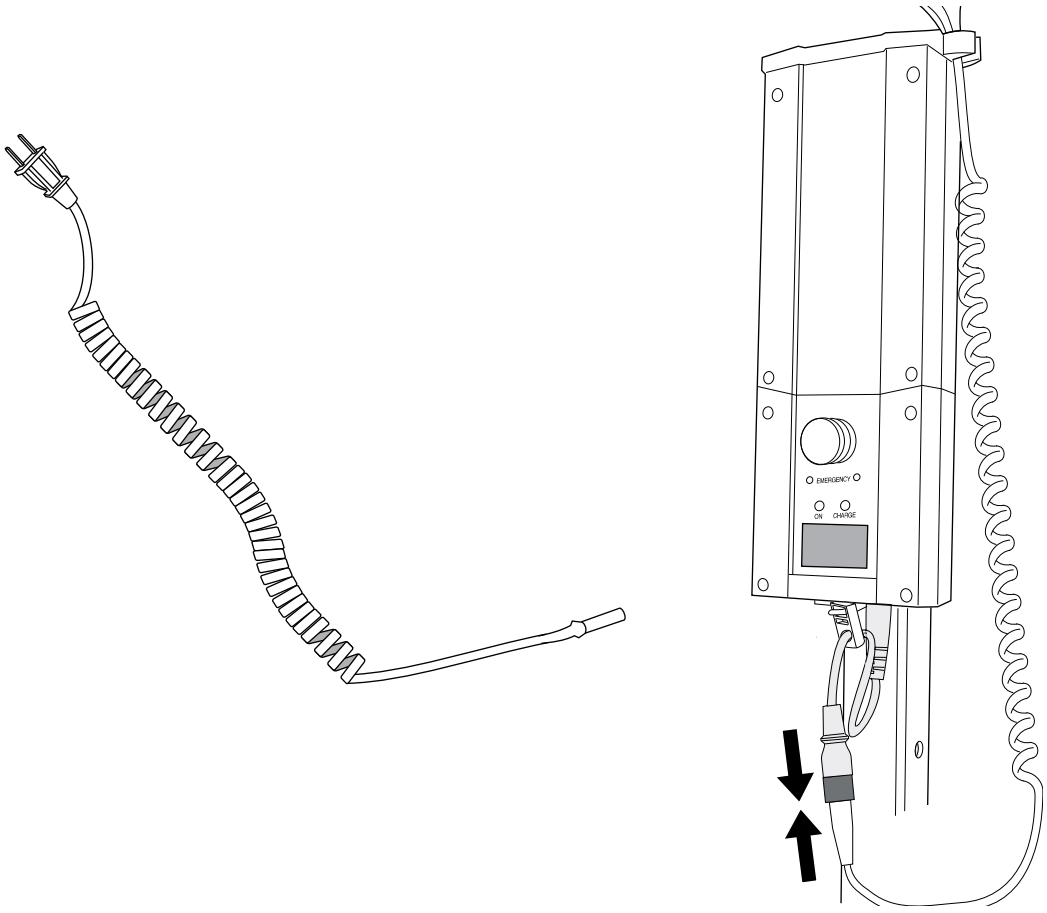
Assembly Instruction
Monteringsanvisning

Prod. No. 20090028

3SE630242-03
2009-11-20

Contains:	**Qty:**
Charging cabel US	1

Fits:
Golvo 7000ES/7007ES
Uno 100 EM/EE
Uno 102 EM/EE/ES
Sabina EM/EE
Sabina II EM/EE
Viking XL
Viking L
Viking M



⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Liko
A Hill-Rom Company

Actuator LA 28
Ställdon LA 28

Assembly Instruction
Monteringsanvisning

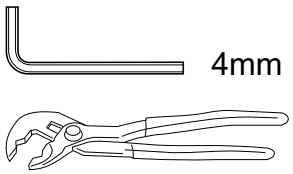
Prod. No. 20190003

3SE640284-03
2009-06-24

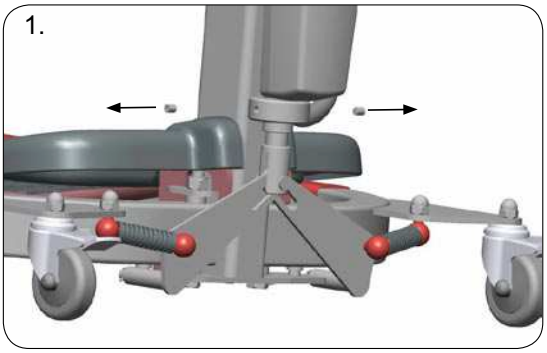
Contains:	**Qty:**
Screw SK6SS M8x10	2
Actuator LA28 grey U102	1

Fits:
Uno 101
Uno 102
Uno 100EM, EE
Uno 102EM, EE, ES
Sabina
Sabina II EE, EM

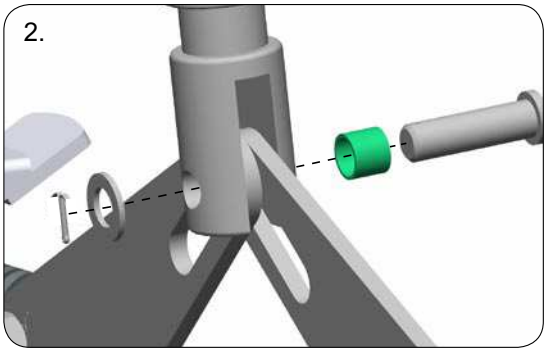
Tools required:



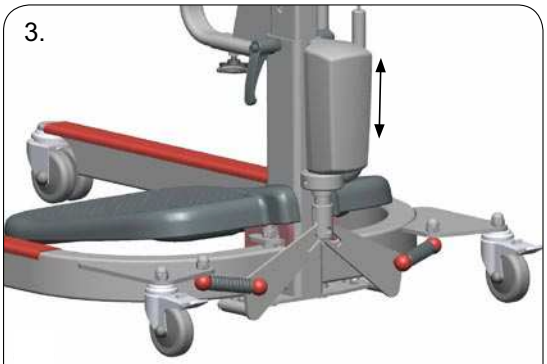
1.



2.

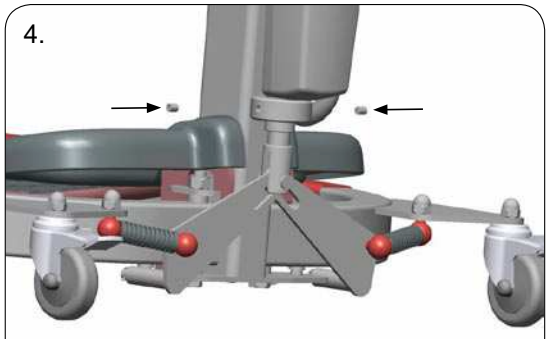


3.



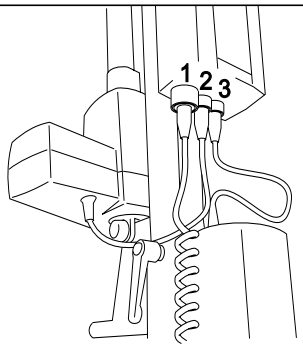
Assemble the actuator enclosed with the sparepart.

4.



Assemble the screws enclosed with the sparepart.
Tightening torque: 8Nm (±5%)

5.



Connect the cables as follows:
- Cable handcontrol to socket 1.
- Cable from the motor for lift arm to socket 2.
- Cable motor for base-width adjustment to outlet 3.

⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Emergency Lowering Device
Nödsänkning U1-2, Sa

Assembly Instruction
Monteringsanvisning

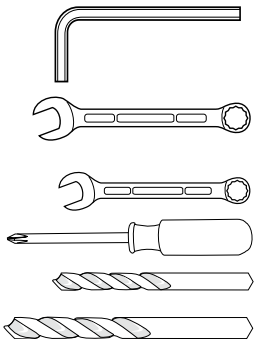
Prod. No. 20190011

3SE630230-05
2009-11-19

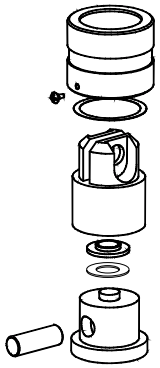
Contains:	**Qty:**
O-ring 20,22x3,53 U102	3
Bearing 12/14x6	1
Washer 12,5/20x0,42	2
Twist casing	1
Mounting bush	1
Butt piston housing	1
Casing em. lowering	1
Bushing em. lowering	1
Shim emergency lowering	1
Washer PTFE em.lowering	1
Locking nut M10 nyloc	1
Screw MC6S M10x25	1
Screw 2,9x9,5	1
Bolt 12x34 Em.lowering	1

Fits:
Uno 101
Uno 102
Uno 100 EM/EE
Uno 102 EM/EE/ES
Sabina EM/EE

Tools required:

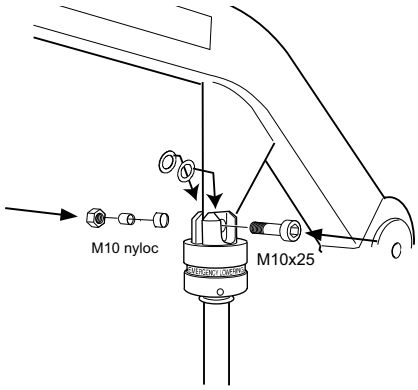


1.



- Adjust the twist casing until the mounting bush slides easily.
- Drill a 11-mm deep hole, located 4 mm above the edge of the twist casing. Use a drill with ø 2,7 mm.
- To countersink the screw into the twist casing - drill with a 5,5 mm drill for the head of the screw.

2.



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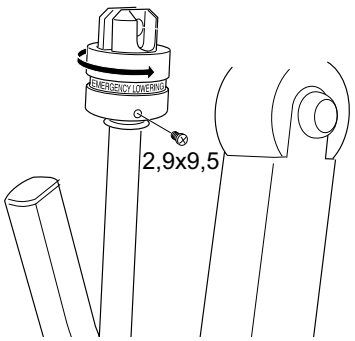

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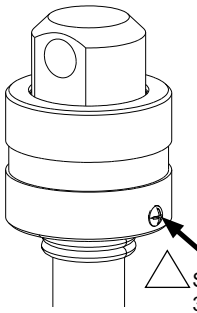


Seal screw, with 31590015 Seal colour Emergency Lowering.

⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Hand Control 2, 4, 6-button
Handkontroll 2, 4, 6-knapp

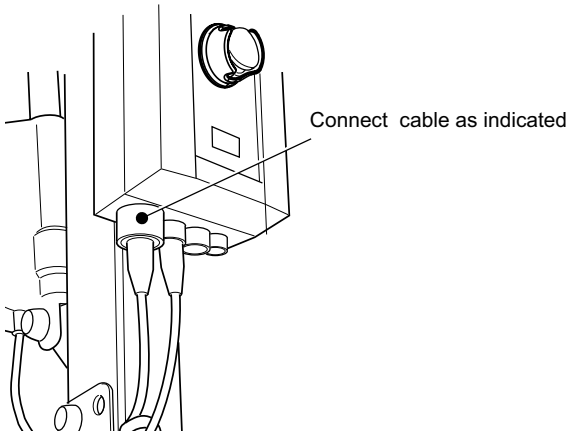
Assembly Instruction
Monteringsanvisning

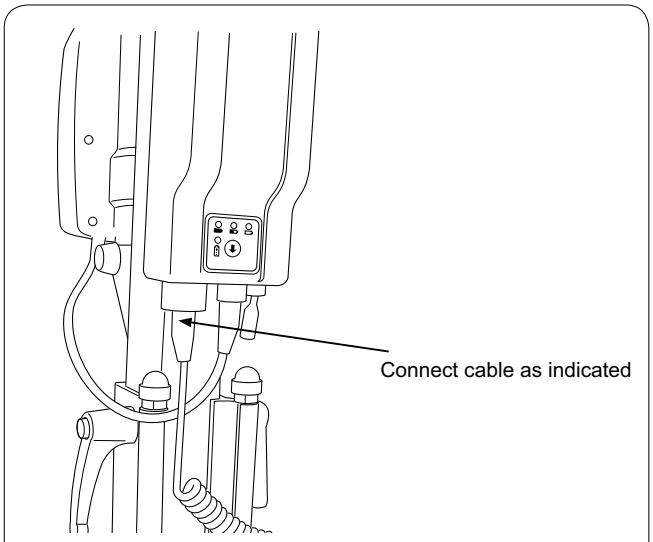
Prod. No. 20090024
20190016
20190017

3SE630204-08
2009-11-04

Contains:	**Qty:**
Hand control EM, EE, ES	1

Fits:
Golvo 7000ES/7007ES
Uno 100 EM/EE
Uno 102 EM/EE/ES
Sabina EM/EE
Sabina II EM/EE
LikoLight
Viking XL
Viking L
Viking M (prod. no. 2040005)
Viking S
Viking XS





⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

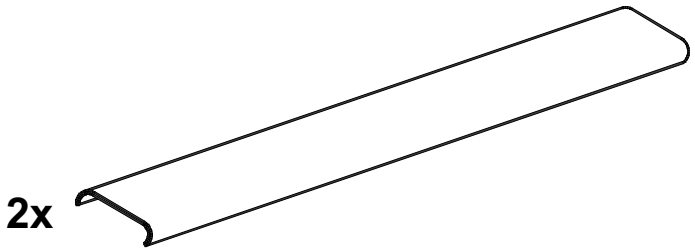
Leg Protector U1, Sa
Benskydd U1 Sa

Assembly Instruction
Monteringsanvisning

Prod. No. 20190029

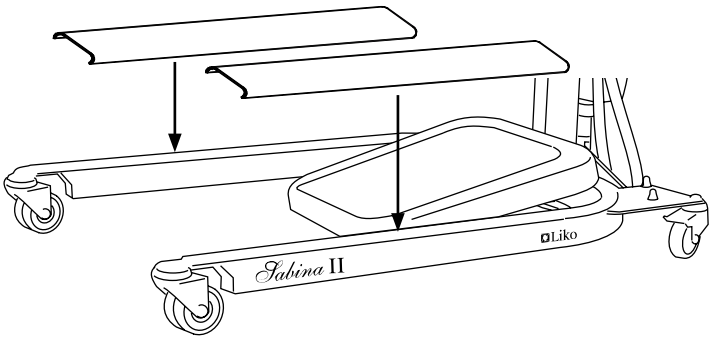
Contains:	Qty:
Leg protector Sabina	2
Tape-cushion 19x30 Uno	6

Fits:
Uno 100
Sabina



2x

6x



⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Front Wheel 75 mm
Framhjul 75 mm

Assembly Instruction
Monteringsanvisning

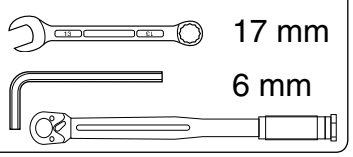
Prod. No. 20190042

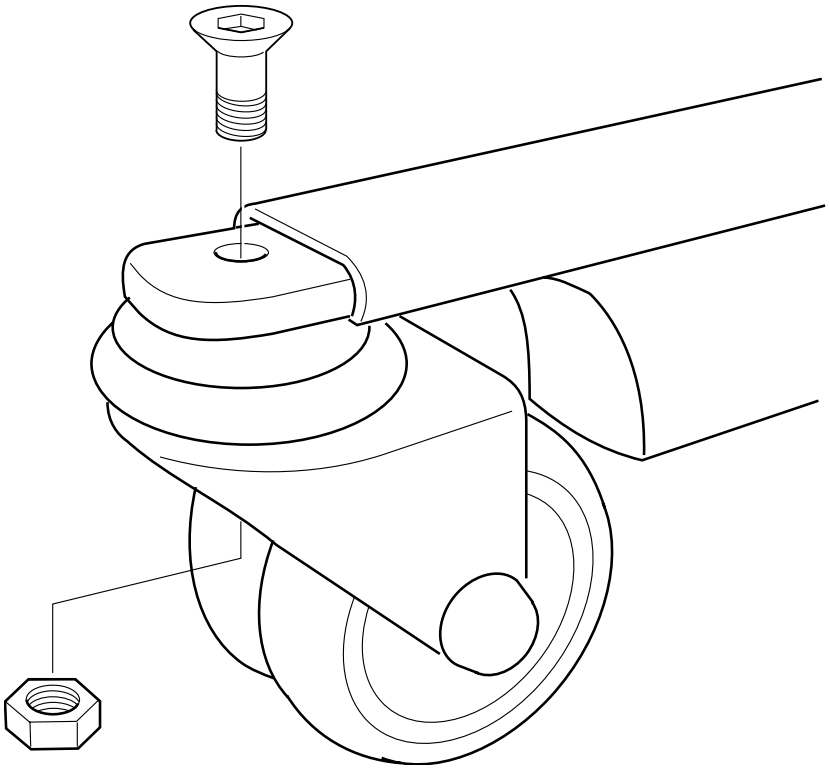
3SE640283-02
2009-09-22

Contains:	**Qty:**
Front wheel 75mm	1
Screw F6S M10x40	1
Locking nut M10 nyloc	1

Fits:
Uno 101
Uno 102
Uno 100EM, EE
Uno 102EM, EE, ES
Sabina
Sabina II EE, EM
Caroli
Capella

Tools required:





△ Tightening Torque / Åtdragningsmoment: 45±5 Nm

△ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Rear Wheel 75 mm
Bakhjul 75 mm

Assembly Instruction
Monteringsanvisning

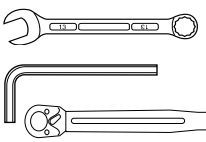
Prod. No. 20190043

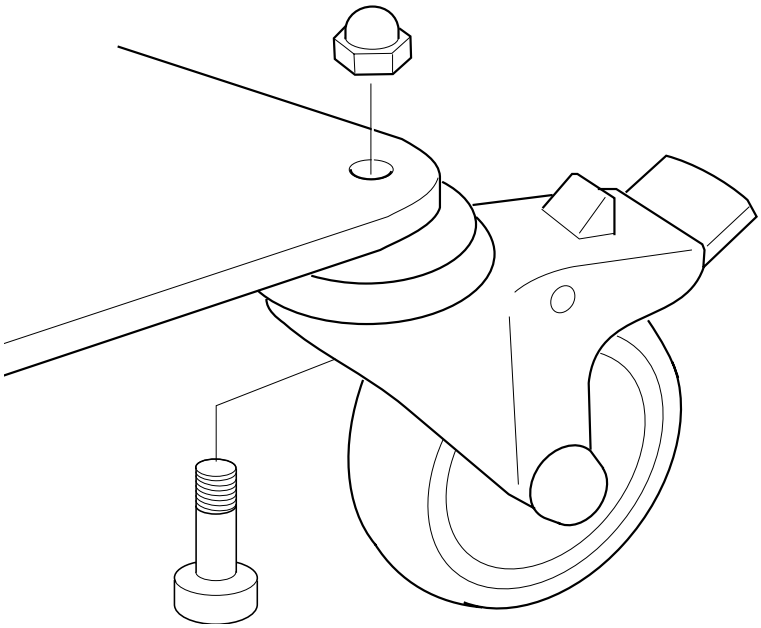
3SE640282-02
2009-09-22

Contains:	**Qty:**
Rear wheel 75mm	1
Domed locking nut M10	1
Screw MC6S M10x25	1

Fits:
Uno 101, 102
Uno 100EM, EE
Uno 102EM, EE, ES
Sabina
Sabina II EE, EM
Caroli
Capella

Tools required:





△ Tightening Torque / Åtdragningsmoment: 45±5 Nm

△ **NOTE**
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Liko
A Hill-Rom Company

Liftarm Plastic Cover
Pelarkåpa, sats

Assembly Instruction
Monteringsanvisning

Prod. No. 20190045

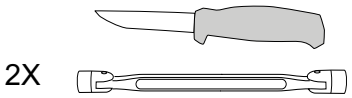
3SE630211-08
2009-01-28

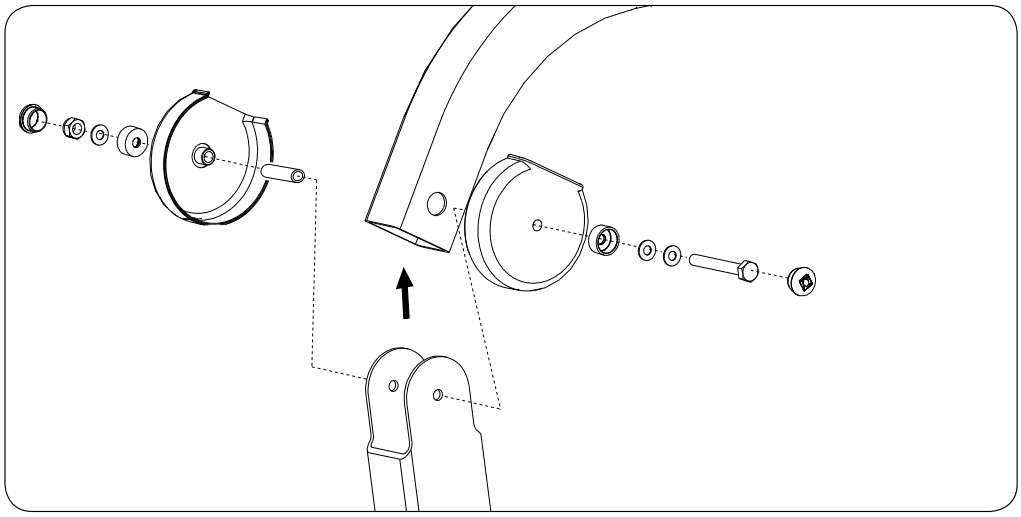
Contains:

Plastic cover	2
Cover hat Liko	2
Cover hat Liko bottom	2
Sleeve bearing Mob.52	1
Locking nut M6 Nyloc	1
Washer PS 6x12x1	3
Screw M6S M6x65	1

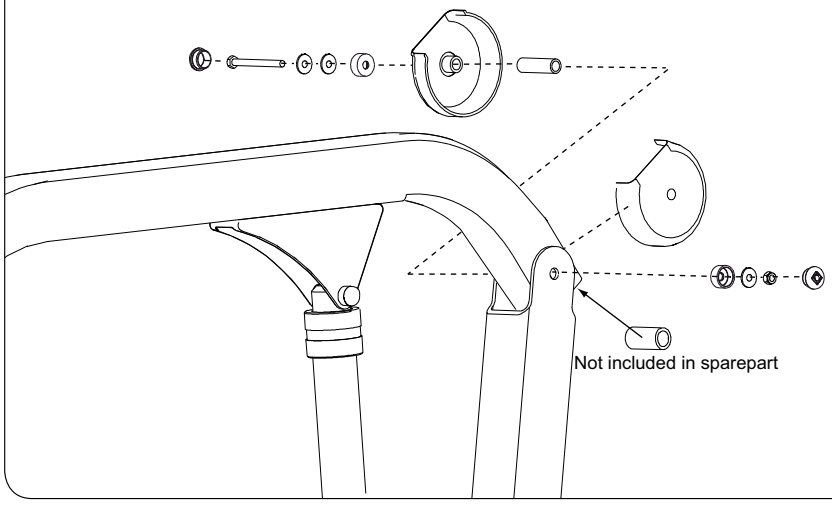
Fits:
Sabina II
LikoLight
Vi S up to S/N 7300867

Tools required





Viking S up to S/N 7300867



⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Front Wheel 100 mm
Framhjul 100 mm

Assembly Instruction
Monteringsanvisning

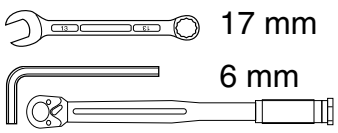
Prod. No. 20190046

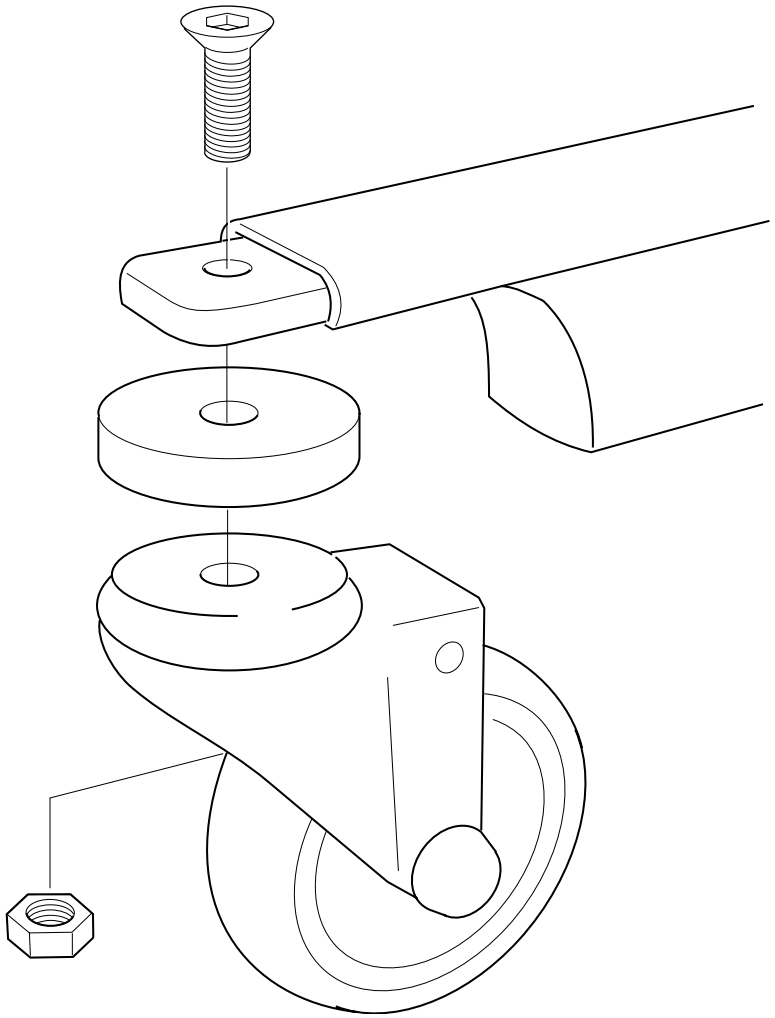
3SE640281-02
2009-06-24

Contains:	**Qty:**
Spacer rear 50/10,5*10 mm	1
Castor 100 mm	1
Locking nut M10 nyloc	1
Screw F6S M10x50	1

Fits:
Uno 101
Uno 102
Uno 100EM, EE
Uno 102EM, EE, ES
Sabina
Sabina II EE, EM

Tools required:





△ Tightening Torque / Åtdragningsmoment: 45±5 Nm

△ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Rear Wheel 100 mm
Bakhjul 100 mm

Assembly Instruction
Monteringsanvisning

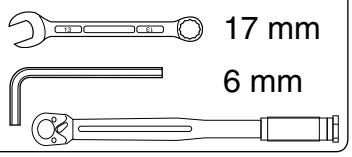
Prod. No. 20190047

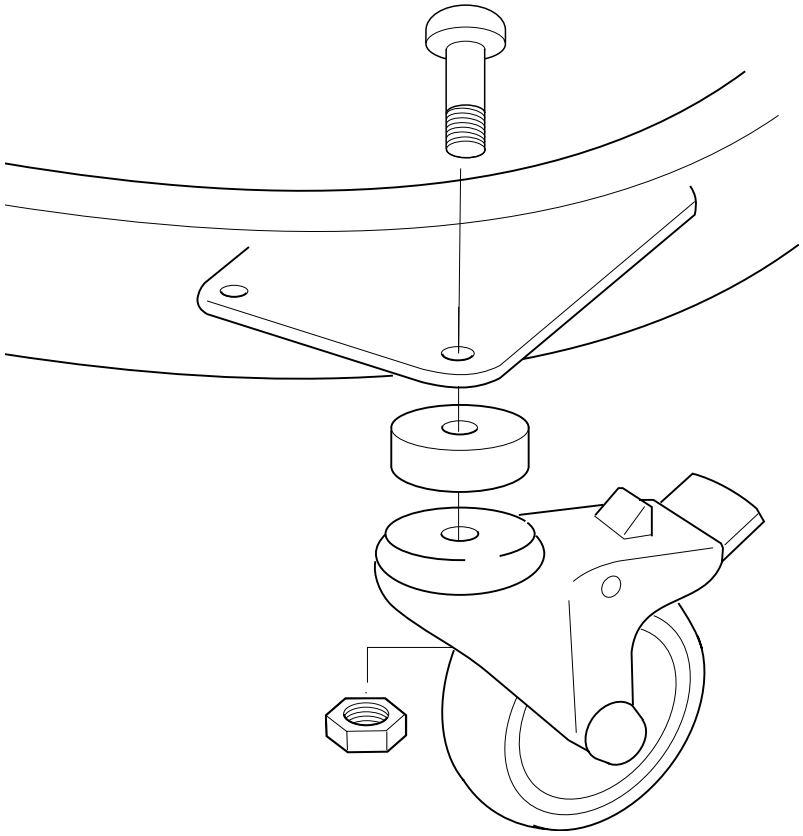
3SE640285-02
2009-06-23

Contains:	**Qty:**
Spacer front 50/10,5*15mm	1
Castor with brake 100mm	1
Screw K6S M10x50	1
Locking nut M10 nyloc	1

Fits:
Uno 101, 102
Uno 100EM, EE
Uno 102EM, EE, ES
Sabina
Sabina II EE, EM

Tools required:





△ Tightening Torque / Åtdragningsmoment: 45±5 Nm

△ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Foot Tray complete Sabina
Fotstöd komplett Sabina

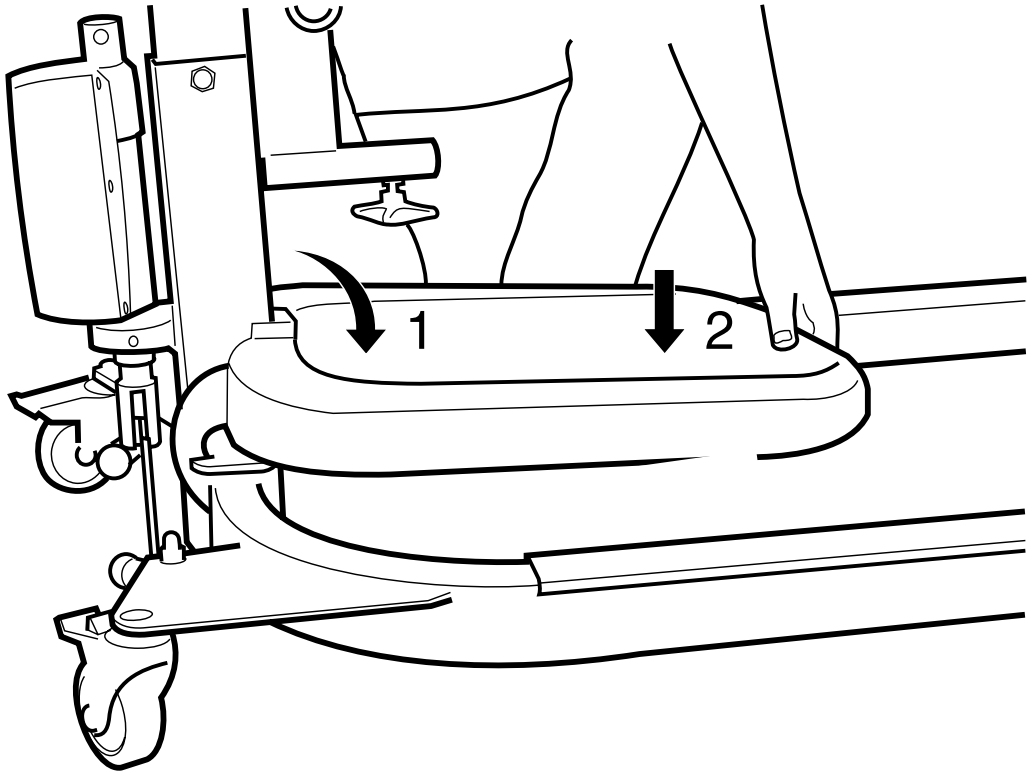
Assembly Instruction
Monteringsanvisning

Prod. No. 20290006

3SE640239-02
2009-06-24

Contains:	**Qty:**
Foot Tray Sabina II	1
Foot frame Sabina	1

Fits:
Sabina



(1) Place the footrest over the base of the mast as shown in the illustration.
Check to see that the brackets are correctly aligned.

(2) Check to see that the plastic footrest is pressed down and in a stable position over the foot rest frame.

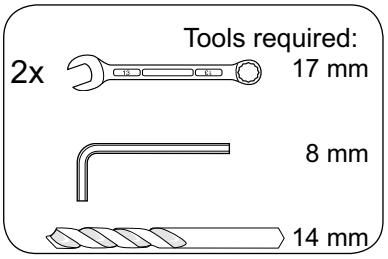
⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

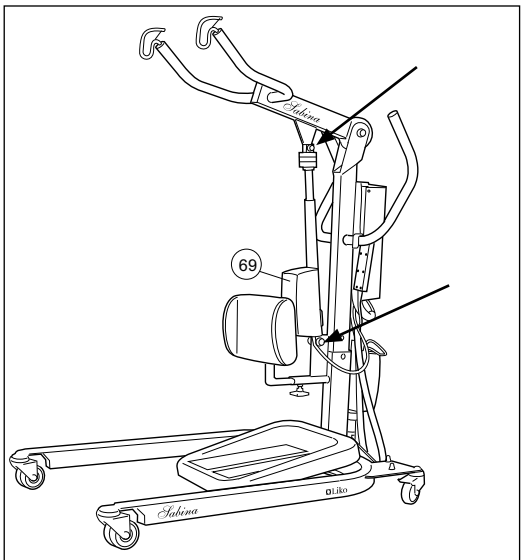
Assembly Instruction
Monteringsanvisning

Prod.no: 20290008

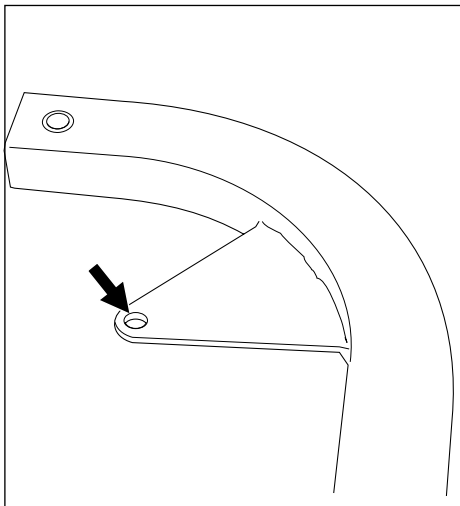
3SE630252-04
2007-06-20

Proj 484



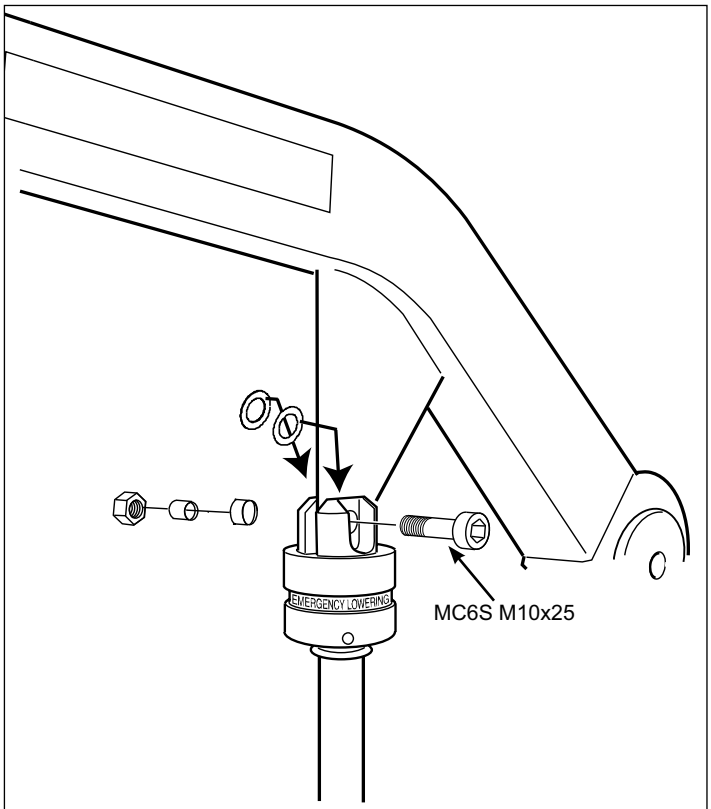


Remove the actuator.



ARM
Uno 100 S/N lower than 7094429:
Uno 102 S/N lower than 45055:

Drill the regular hole to 14 mm.



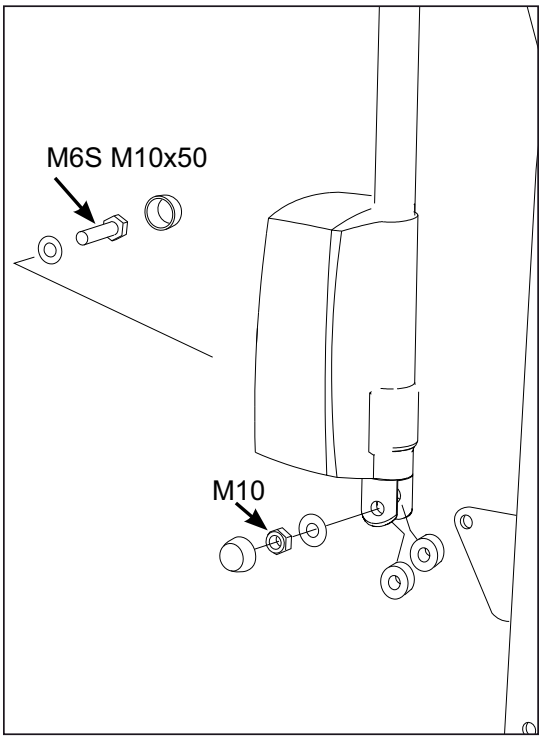
△ Make sure both casings are in the assembly.

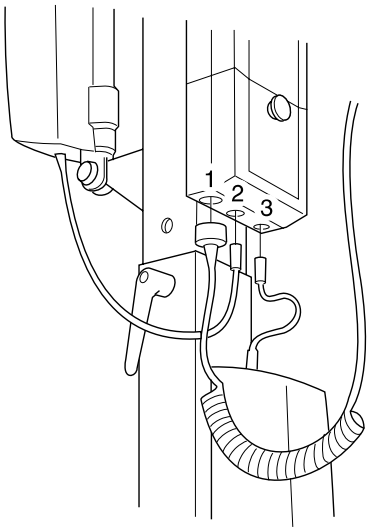
Actuator JKAS 250 G
Ställdon JKAS 250 G

Assembly Instruction
Monteringsanvisning

Prod.no: 20290008

3SE630252-04
2007-06-20
Proj 484





Connect the cables as follows:
Handcontrol to pos 1
Motorcable mast to pos 2
Motorcable base to pos 3

⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

5.70.1
Control Box
Kontrollbox

Assembly Instruction
Monteringsanvisning

Prod. No. 20290011

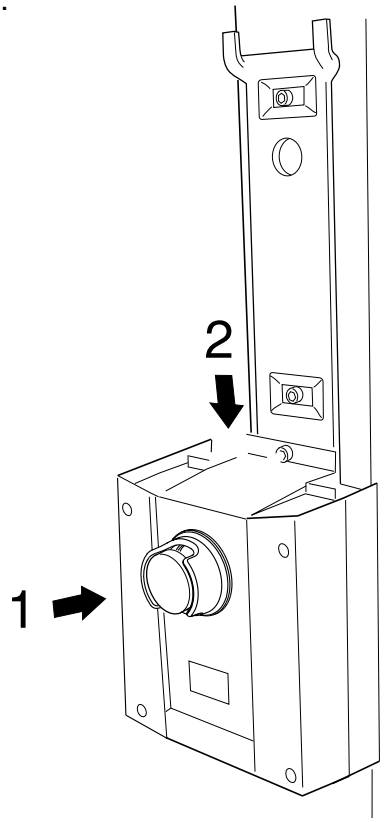
Contains:	**Qty:**
Control Box	1

Fits:
Sabina EE
Sabina EM

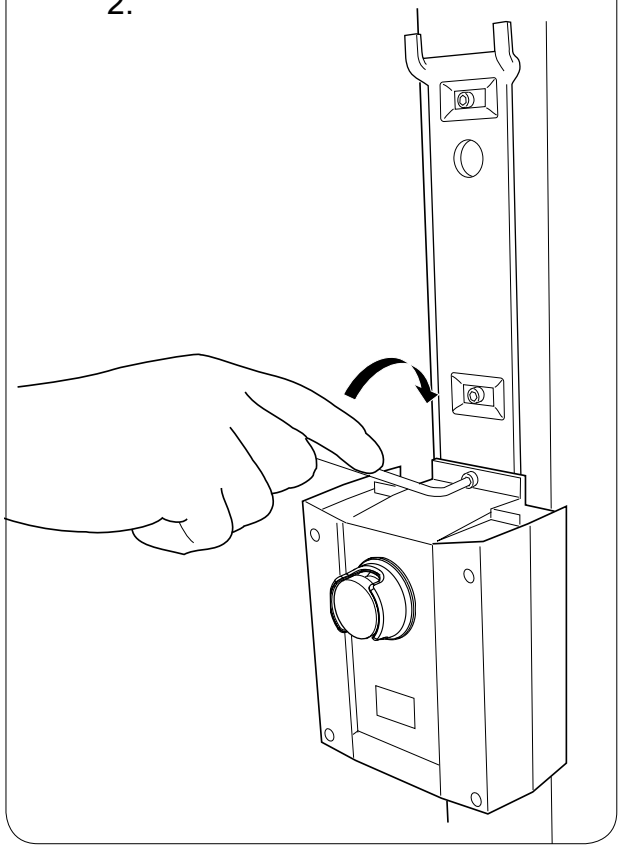
Tools required:

3 mm

1.



2.



⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Leg Support
Underbensstöd Sabina

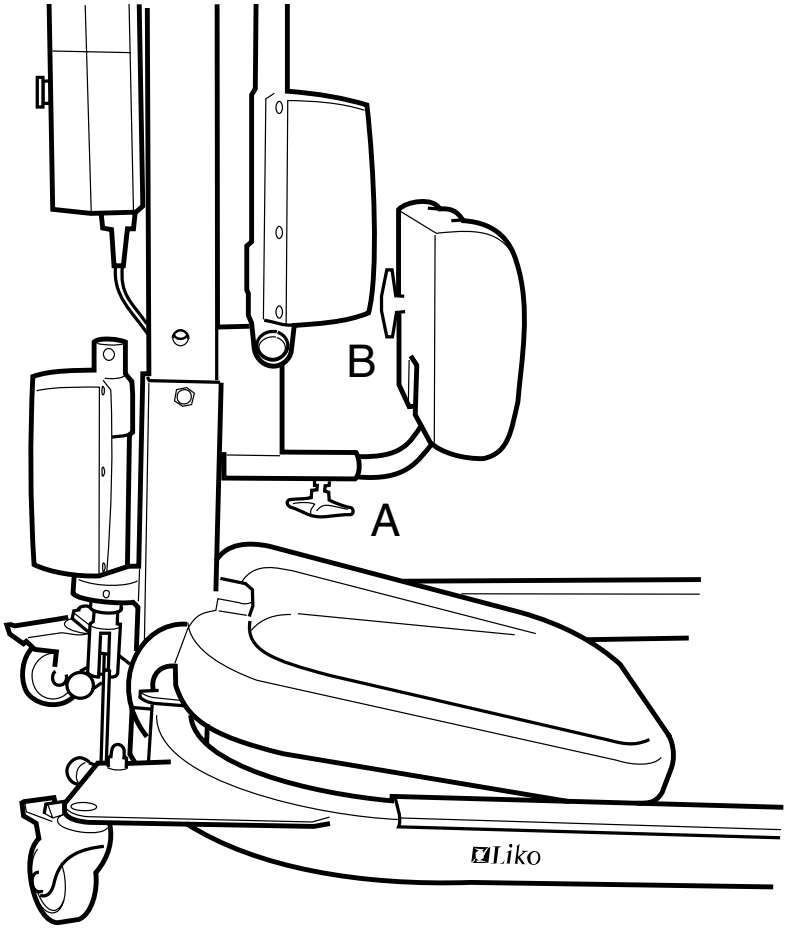
Assembly Instruction
Monteringsanvisning

Prod. No. 20290021

3SE640280-02
2009-06-24

Contains:	**Qty:**
Leg Support Sabina	1

Fits:
Sabina
Sabina II EE, EM



Place the brace for the leg support into the bracket on the mast.
Use knob A to adjust the depth, i.e. the distance to the patients knees.
Adjust the height of the leg support and turn knob B to lock the leg support in place.
Tighten the knobs securely after making these adjustments.

⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Strap for Leg Support
Vadband Sabina

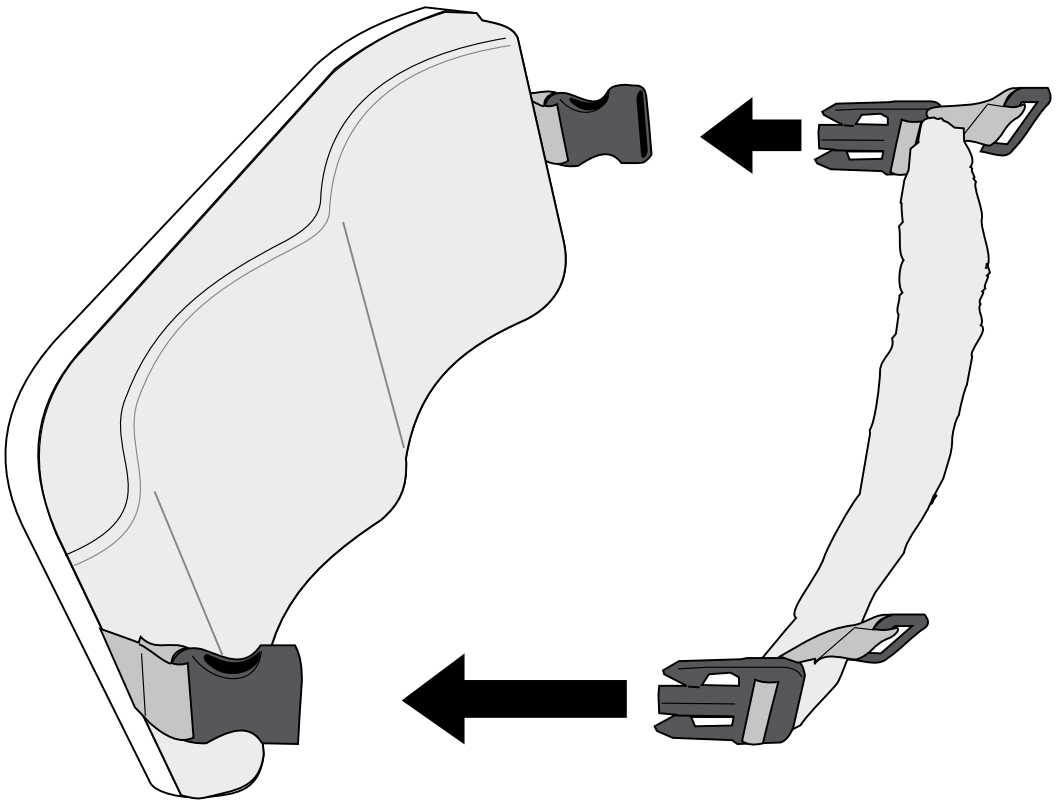
Assembly Instruction
Monteringsanvisning

Prod. No. 20290022

3SE640279-02
2009-06-24

Contains:	**Qty:**
Band 40mm 688 green	1
Lightweight buckle	2
D-ring plastic	2

Fits:
Sabina
Sabina II EE, EM



⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

5.87.1

Safety Latch
Urkrokningsskydd

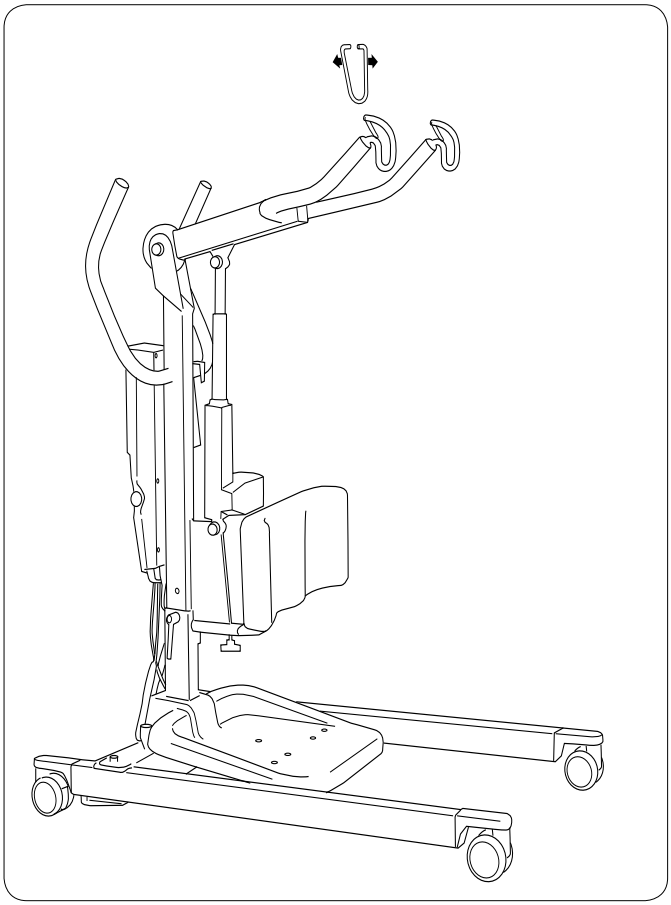
Assembly Instruction
Monteringsanvisning

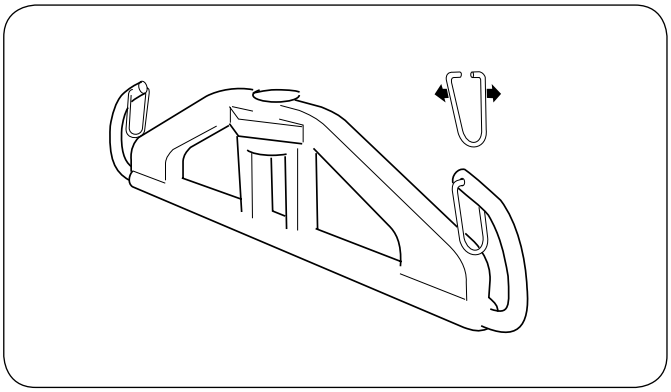
Prod. No. 31190018

3SE640271-03
2009-09-22

Contains:	**Qty:**
Safety Latch	2

Fits:
SlingBar Standard 450
Sabina
Caroli
Capella





⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Liko
A Hill-Rom Company

Extra Battery Box, incl Batteries
Batteribox inkl batterier

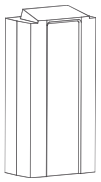
Assembly Instruction
Monteringsanvisning

Prod. No. 2006106

3SE630224-04
2009-11-24

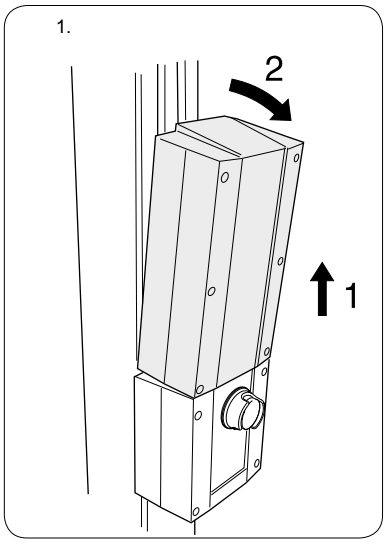
Contains:
Battery box

Qty:
1

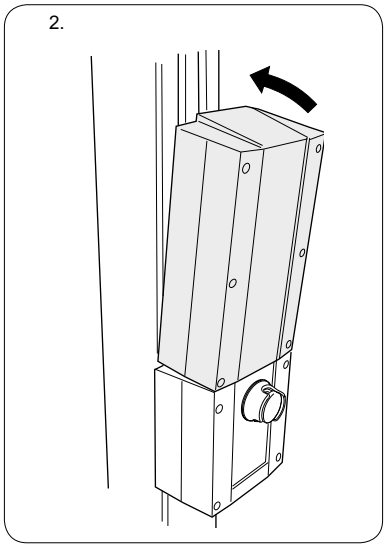


Fits:
Golvo 7000/7007 (all models)
Uno 100EM,EE,102EM,EE,ES
Sabina
LikoLight
Viking XL
Viking L
Viking M (2040005)
Caroli
Capella

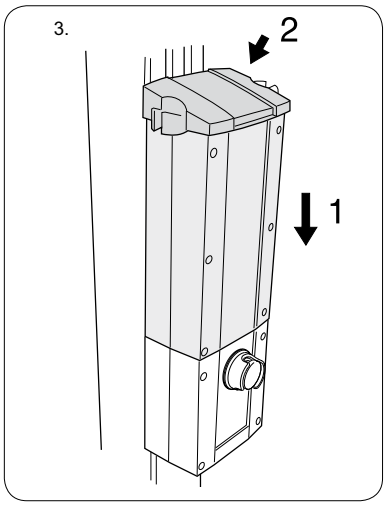
1.



2.



3.



⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.
- Old batteries are to be left at the nearest recycling station or given to personnel authorized by Liko.

5.160.1

Extension Cable
Skarvkabel

Assembly Instruction
Monteringsanvisning

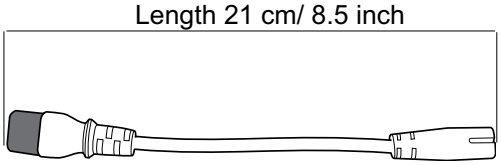
Prod. No. 21090001

3SE630225-03
2009-11-04

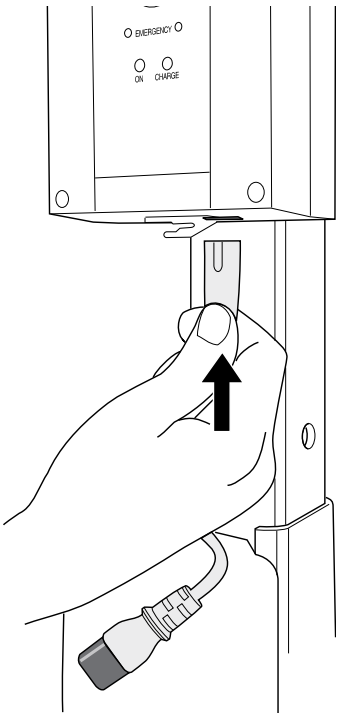
Contains:	**Qty:**
Extension cable EU	1

Fits:
Golvo 7000ES/7007ES
Uno 100 EM/EE
Uno 102 EM/EE/ES
Sabina EM/EE
Sabina II EM/EE
Viking XL
Viking L
Viking M (prod. no. 2040005)

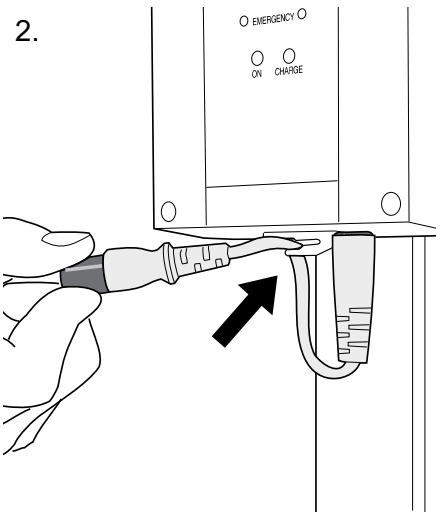
Length 21 cm/ 8.5 inch



1.



2.



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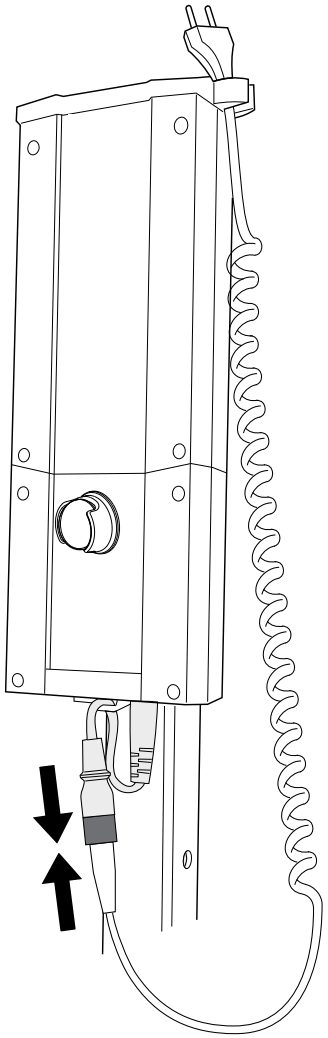


⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

5.188.1
Control Box
Kontrollbox

Assembly Instruction
Monteringsanvisning

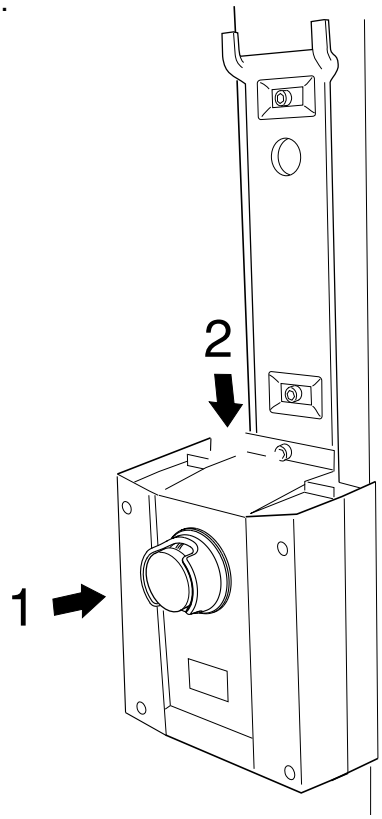
Prod. No. 20290024

Contains:	**Qty:**
Control Box	1

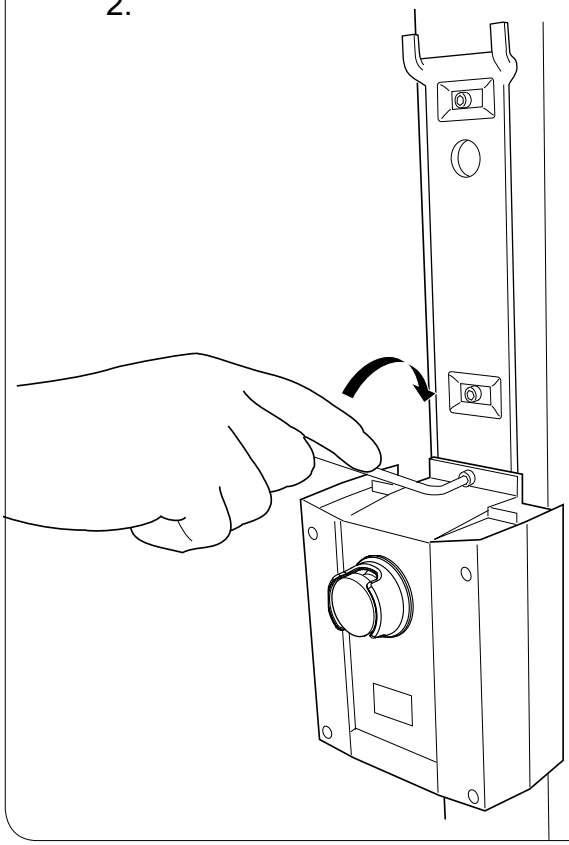
Fits:
Sabina II EM/EE

Tools required:

1.



2.



⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Assembly Instruction
Monteringsanvisning

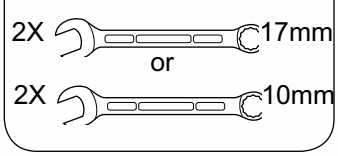
Prod. No. 20290023

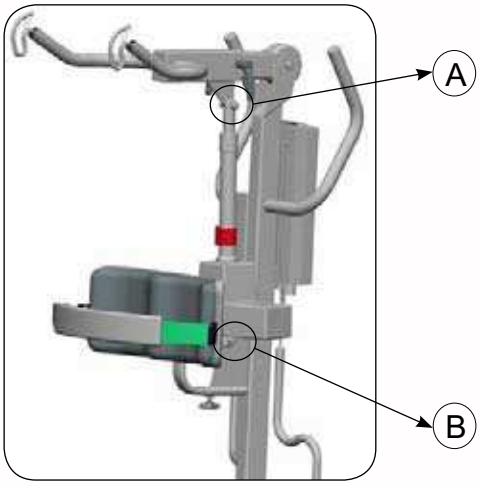
3SE640247-03
2009-06-26

Contains:	Qty:
Actuator Sabina II	1

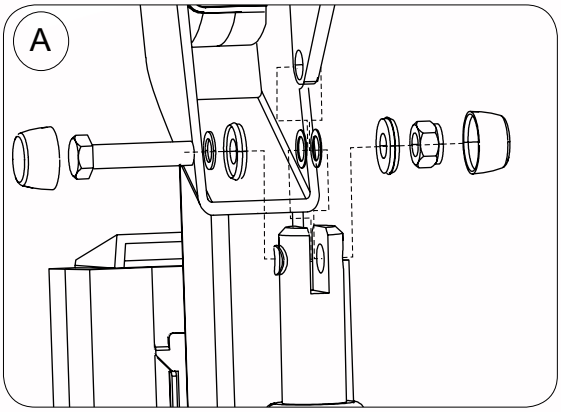
Fits:
Sabina II EE, EM

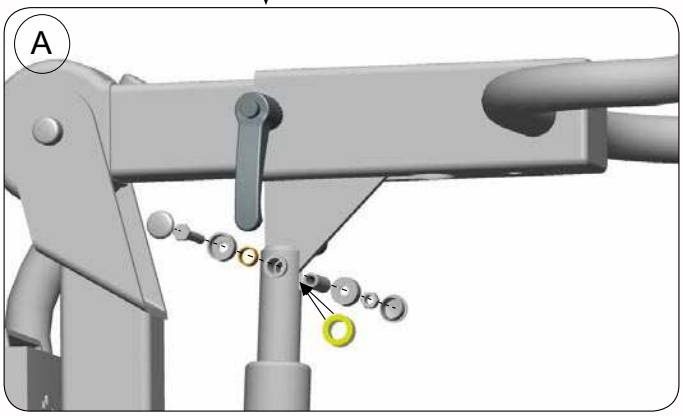
Tools required:

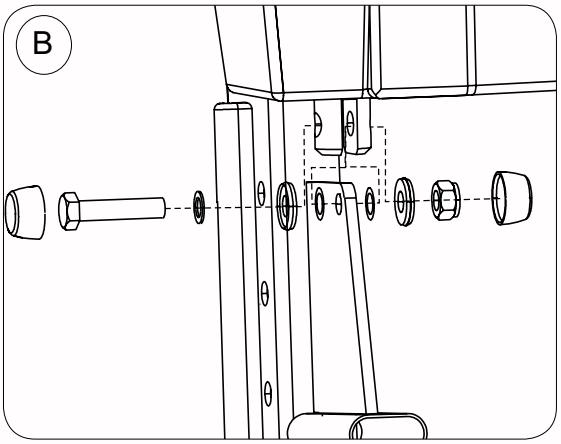


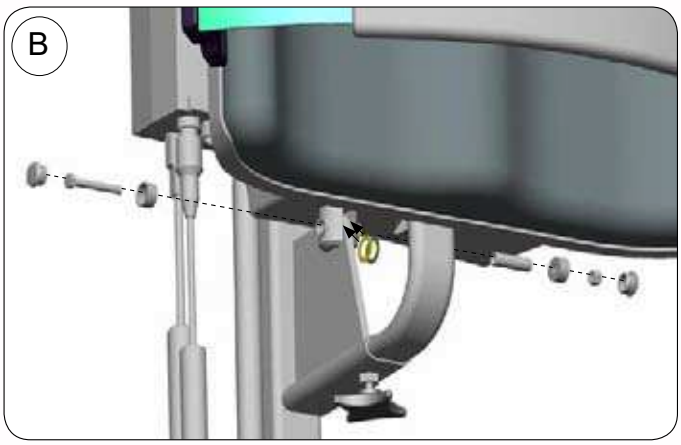


From s/n 421809:









⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Restoration set Manual Base
Renoveringssats manuell breddning

Assembly Instruction
Monteringsanvisning

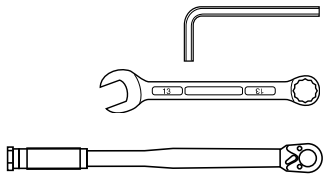
Prod. No. 20190049

3SE630226-03
2009-11-20

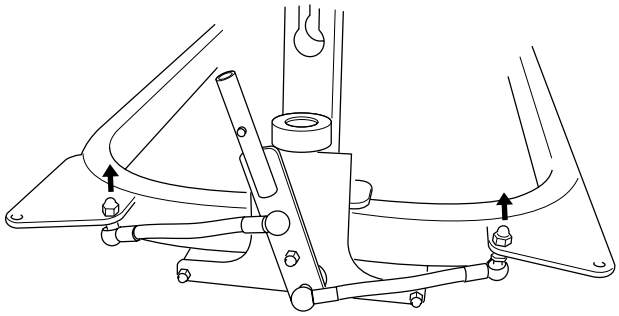
Contains:	**Qty:**
Manual Base	1
Domed locking nut M10	2
Domed locking nut M8	2

Fits:
Uno 100 EM
Uno 102 EM
Sabina EM
Sabina II EM

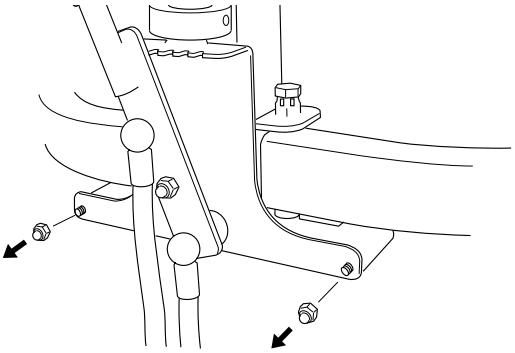
Tools required:



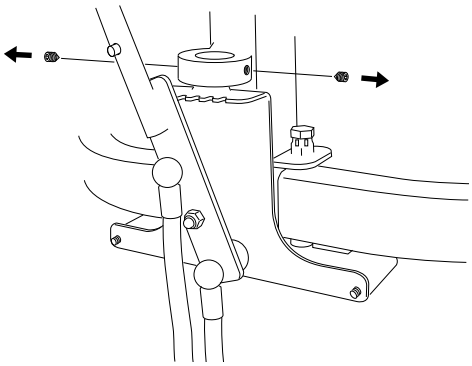
1a. Remove the old manual base.



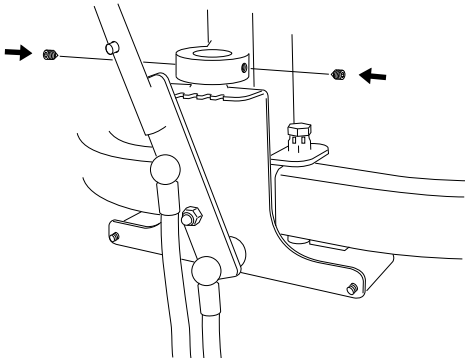
1b.



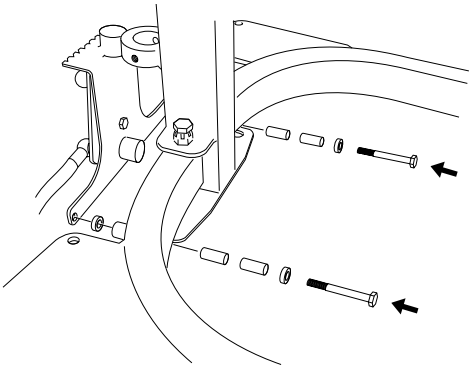
1c.



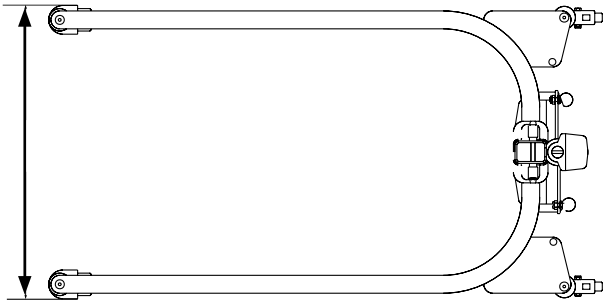
2a. Assemble the new manual base.



2b.

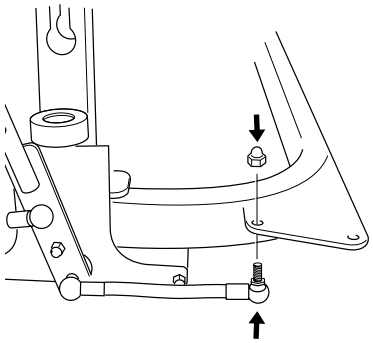


2c. Adjust the legs to the minimum spreading, see the Instruction guide.



2d.

Tightening torque 17 NM



△ NOTE

- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Liko
A Hill-Rom Company

Restoration set Electrical Base
Renoveringssats elektrisk breddning

Assembly Instruction
Monteringsanvisning

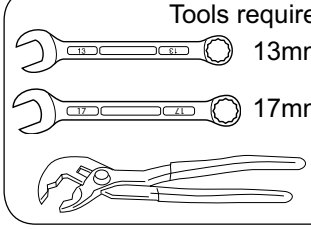
Prod. No. 20190050

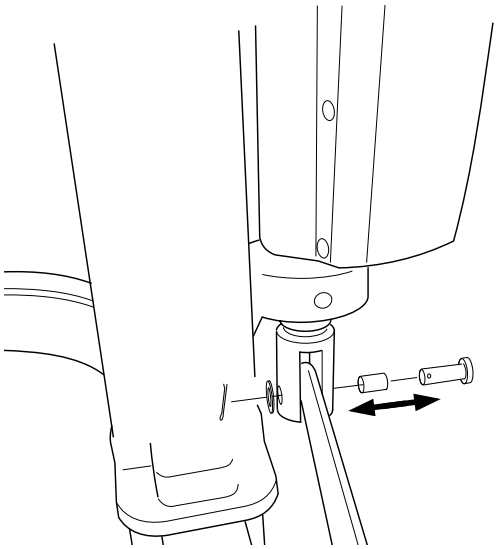
3SE630227-03
2009-06-25

Contains:	**Qty:**
Jointed arm right	1
Jointed arm left	1
Bearing 103-10-12 Uno	1
Split Pin SP 3,2x20	2
Split Pin SP 2,5x16	1

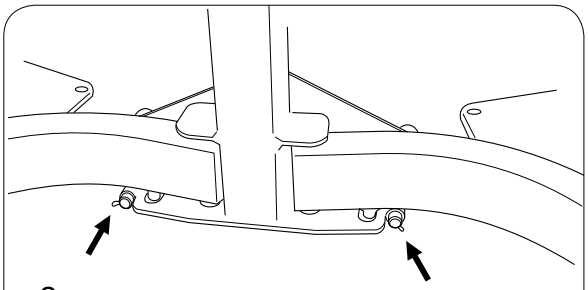
Fits:
Uno 101,102
Uno 100EM,EE,102EM,EE,ES
Sabina
Sabina II EE, EM

Tools required:

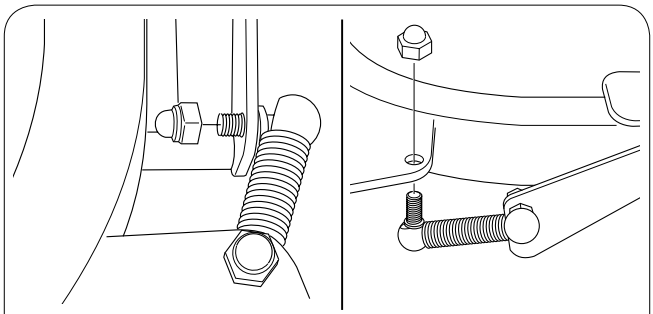




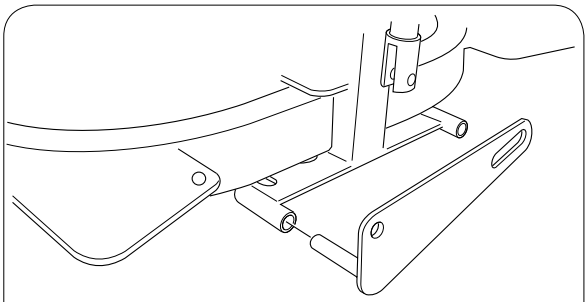
1. Remove the split pin. Pull out the bearing and the pin bolt. Keep the bolt for later use.



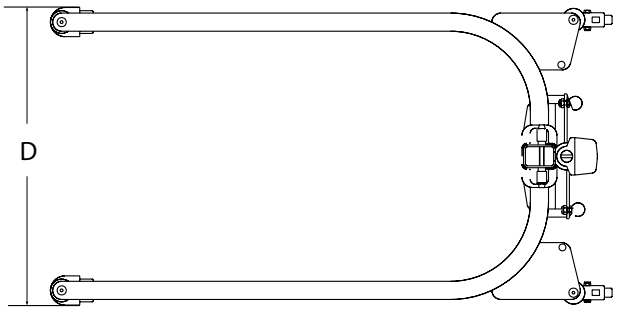
2. Remove the split pins.



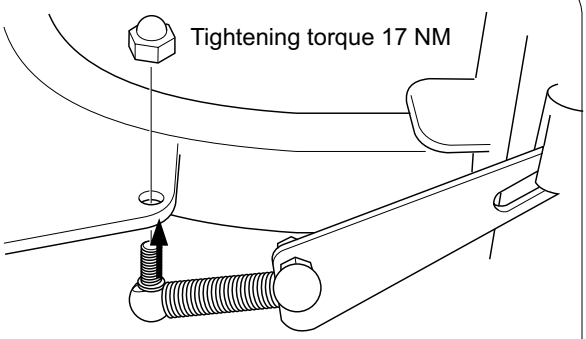
3. Remove the rounded locking bolt nuts from the jointed arms and the legs.



4. Pull out the jointed arms. Assemble in reverse order: Jointed arms (new), bearing (new), pin bolt (old). Drive the actuator to the highest position.



5. Adjust the legs to the minimum spreading (size ”D” in the Technical Specifications).



6. Mount the ball couplings on the legs in the same position as before.

⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Liko
A Hill-Rom Company

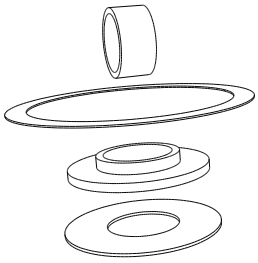
Restoration set Emergency Lowering
Renoveringssats mekanisk nödsänkning

Assembly Instruction
Monteringsanvisning

Prod. No. 20190051

3SE630222-06
2010-03-09

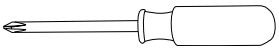
Contains:	**Qty:**
Casing emergency lowering	1
Bushing emergency lowering	1
Shim emergency lowering	1
Washer PTFE em.lowering	1

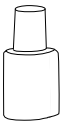


Fits:
Uno 101
Uno 102
Uno 100EM, EE
Uno 102EM, EE, ES
Sabina
LikoLight up to S/N 2504053
Viking S
Viking XS

Tools required:

2 x 17 mm
alt. 2 x 10 mm

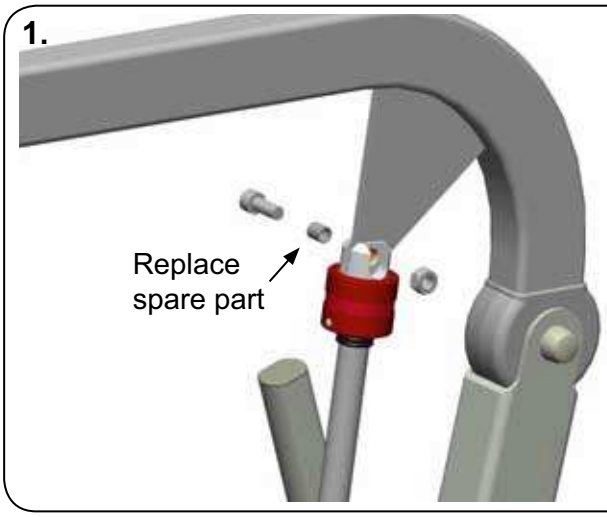




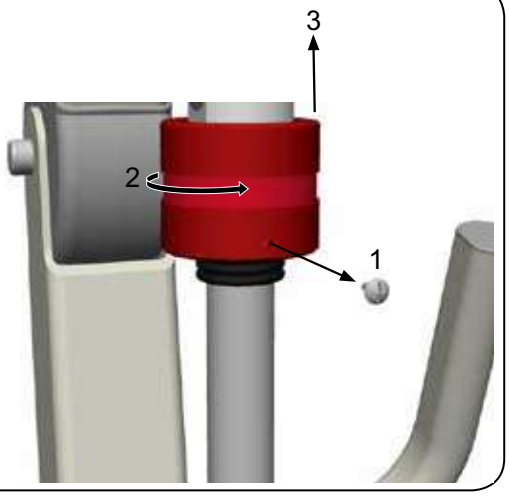
31590015
Seal colour,
Emergency Lowering

Uno, Sabina, LikoLight up to S/N 2504053:

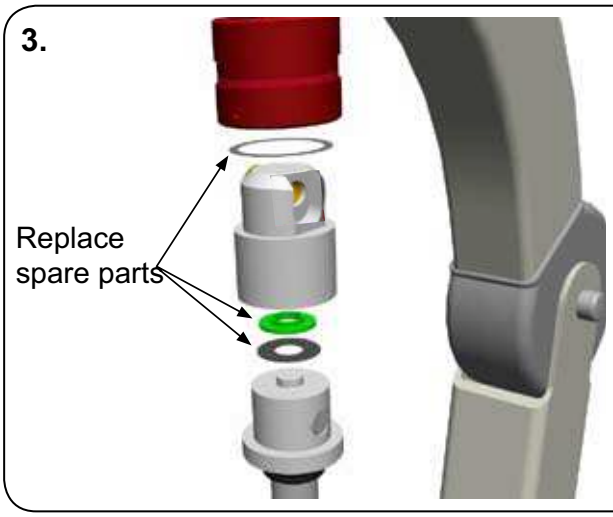
1.



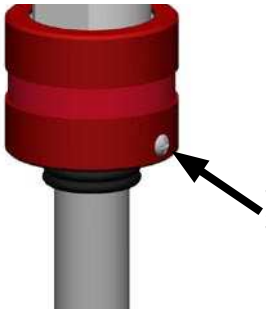
2.



3.



4. Assemble the product in reverse order.



Seal screw with
31590015 Seal colour,
Emergency Lowering

⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Foot tray cover
Fotplatta

Assembly Instruction
Monteringsanvisning

Prod. No. 20290026

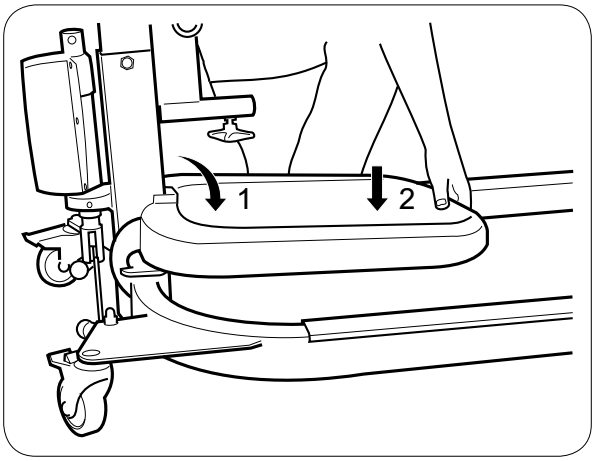
3SE630245-04
2009-09-22

Contains:	Qty:
Foot Tray Sabina II	1

Fits:
Sabina II EE, EM
Sabina 200
RollOn
Capella

Tools required:

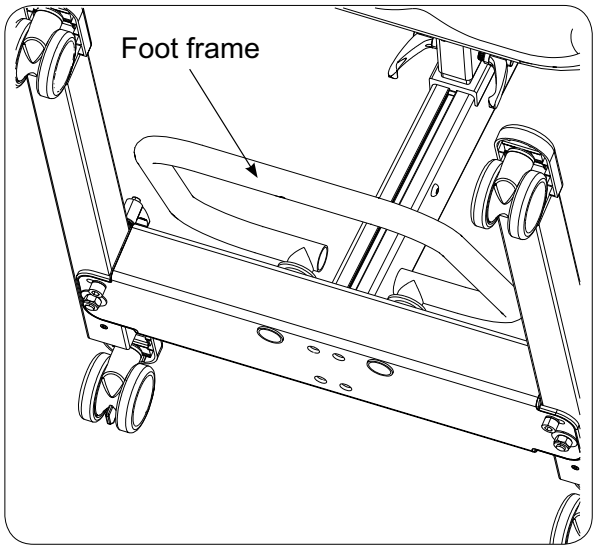
Sabina



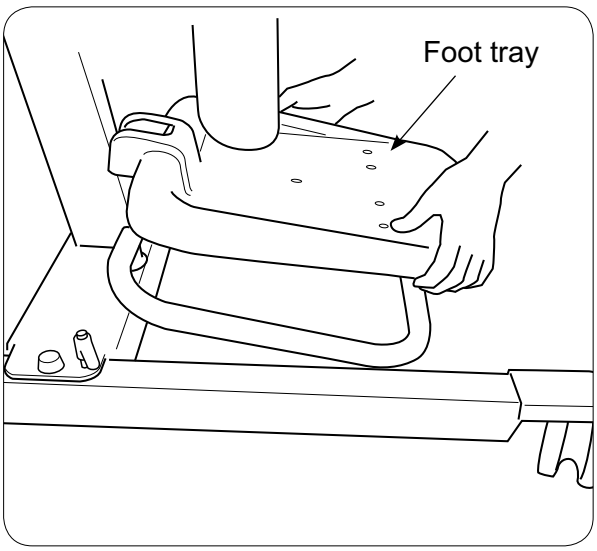
1. Place the footrest over the base of the mast as shown in the illustration. Make sure it's correctly aligned.

2. Press down the foot tray in a stable position over the foot frame.

RollOn



1. Place the foot frame in position at the middle beam as shown in the illustration. Make sure it's correctly aligned.



2. Press down the foot tray in a stable position over the foot frame.

⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

5.248.1

Cable for Charging, AU/NZ
Laddningskabel AU/NZ

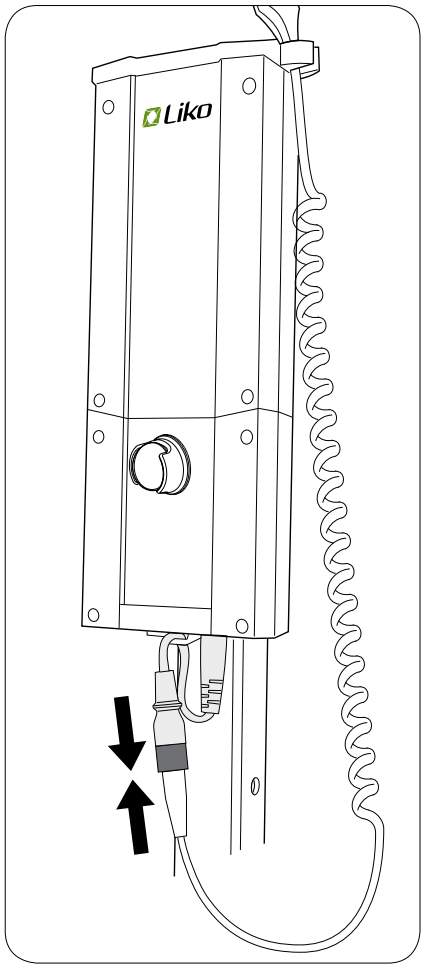
Assembly Instruction
Monteringsanvisning

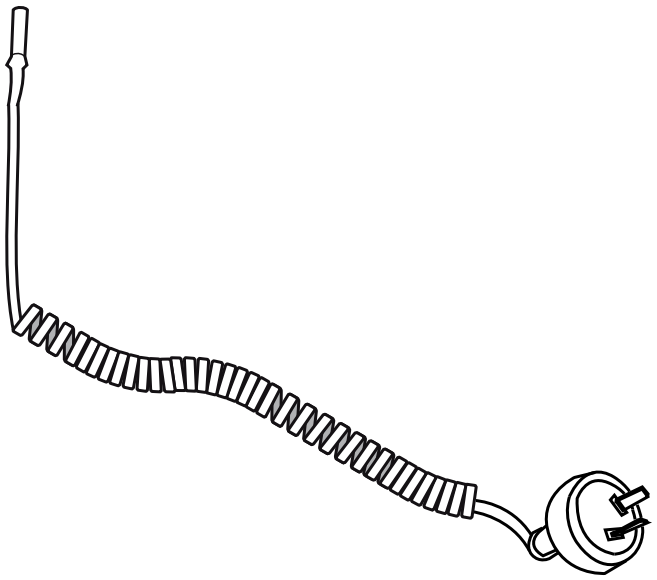
Prod. No. 20090050

3SE630243-04
2009-11-13

Contains:	**Qty:**
Cable for Charging AU/NZ	1

Fits:
Golvo 7000ES/7007ES
Uno 100 EM/ES
Uno 102 EM/EE/ES
Sabina EM/EE
Sabina II EM/EE
Viking XL
Viking L
Viking M





⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

5.263.1

Extension Cable, US
Skarvkabel, US

Assembly Instruction
Monteringsanvisning

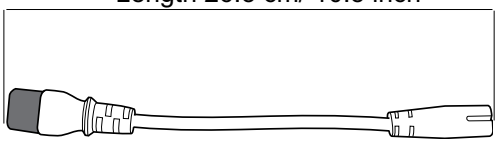
Prod. No. 21090011

3SE630218-03
2009-11-13

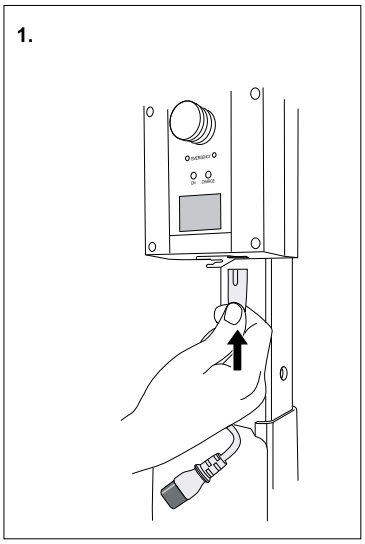
Contains:	**Qty:**
Extension cable US	1

Fits:
Golvo 7000ES/7007ES
Uno 100 EM/EE
Uno 102 EM/EE/ES
Sabina EM/EE
Sabina II EM/EE
Viking XL
Viking L
Viking M (prod. no. 2040005)

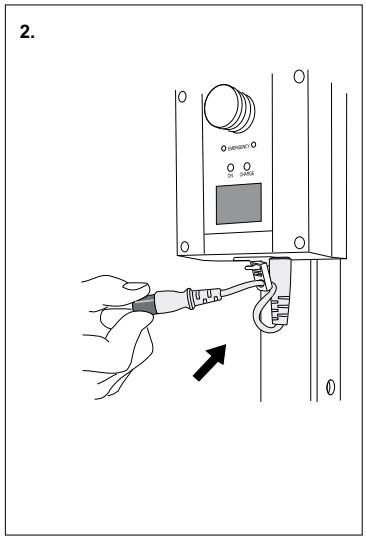
Length 26.5 cm/ 10.5 inch



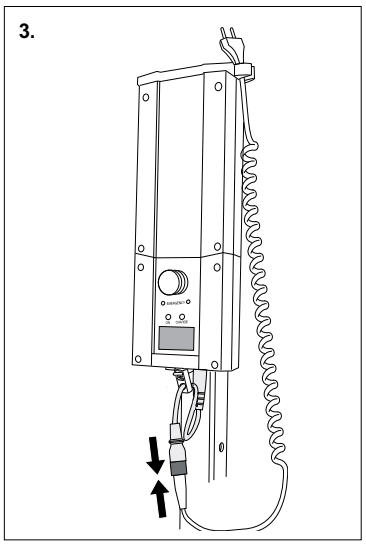
1.



2.



3.



⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Hook for handcontrol, 2, 4, 6 button
Krok för handkontroll 2, 4, 6 knappar

Assembly Instruction
Monteringsanvisning

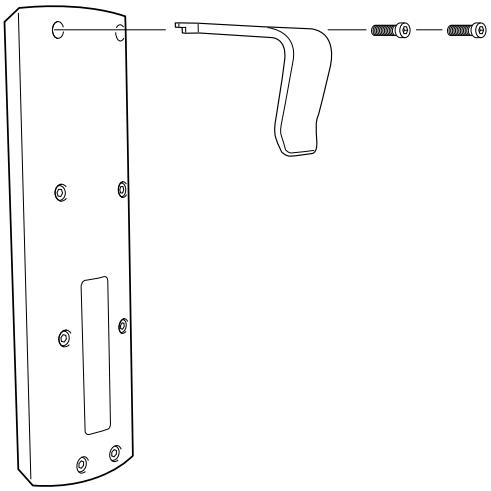
Prod. No.20090058

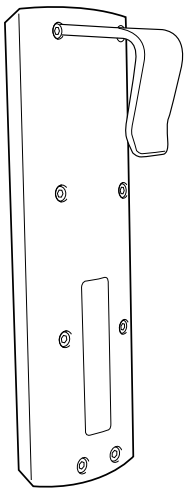
3SE630210-04
2009-06-25

Contains:	**Qty:**
Hook for Handcontr 2,4,6	1

Fits:
Golvo 7000/7007, 7000/7007ES
Golvo Classic
Golvo Facelift
Sabina
Sabina II EE, EM
Sabina 200
LikoLight
Viking XL
Viking L
Viking S
Viking XS

Tools required:





⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Screw M12x105 U1-2, Sa
Skruv M12x105 U1,U2,Sa

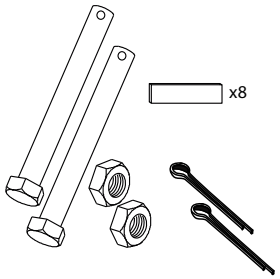
Assembly Instruction
Monteringsanvisning

Prod. No. 20190057

3SE640245-04
2010-03-09

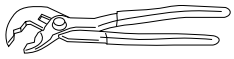
Contains:	**Qty:**
Split Pin SP 3,2x20	2
Locking nut M12	2
Screw M6S M12x105	2
Tape 19x30 Uno	8

Fits:
Uno 101, Uno 102
Uno 100 EM/EE, Uno 102 EM/EE/ES
Sabina EM/EE, Sabina II EM/EE



Tools required:

2x 19mm

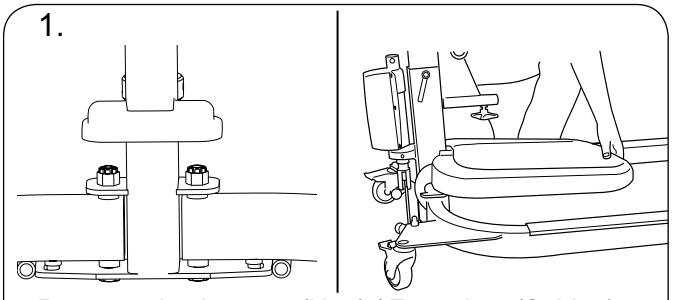


PTFE grease

Uno 100 to S/N: 7092715
Uno 102 to S/N: 41550

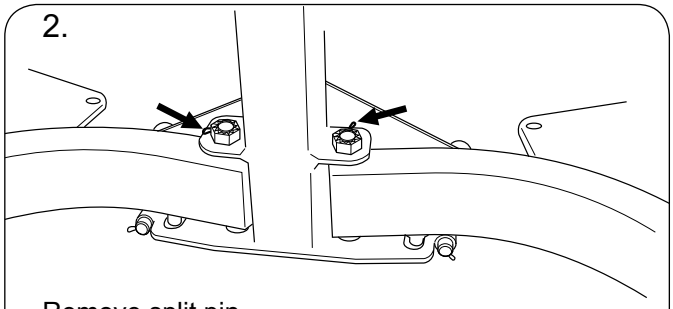
Sabina EM/EE to S/N: 406484
Sabina II EM/EE to S/N: 413259

1.



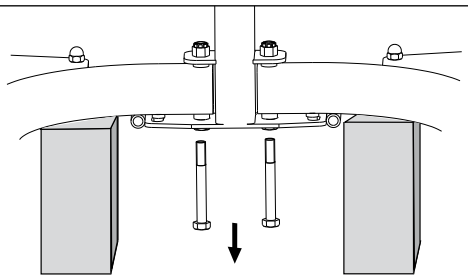
Remove plastic cover (Uno) / Foot plate (Sabina).

2.



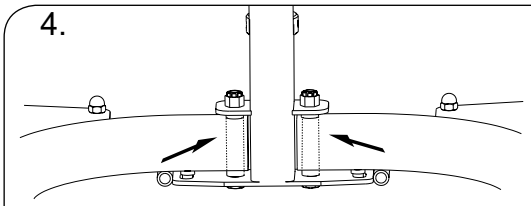
Remove split pin.

3.



Dismount and dispose the pin bolt.

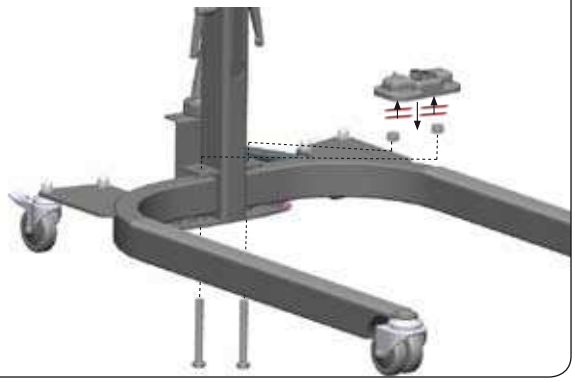
4.



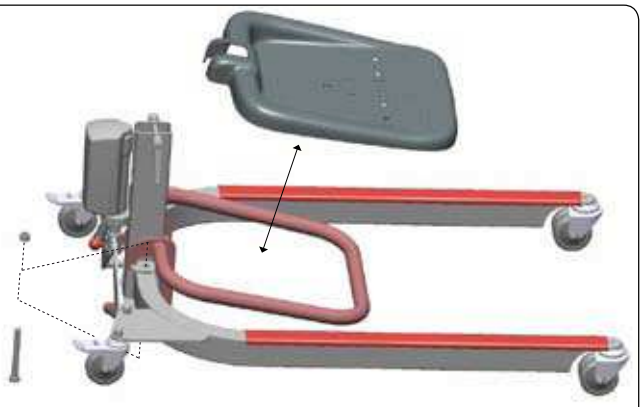
Lubricate new screw with PTFE- grease, mount together with new split pin.

Uno 100 from S/N: 7092716
Uno 102 from S/N: 41551

Lubricate new screw with PTFE-grease



Sabina EM/EE from S/N: 406485
Sabina II EM/EE from S/N: 413260



Tightening torque 17Nm ± 2Nm.

⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Liko
A Hill-Rom Company

Pivotpoint actuator Sa II
Bultförband ställdon Sa II

Assembly Instruction
Monteringsanvisning

Prod. No. 20290029

3SE640246-04
2009-06-24

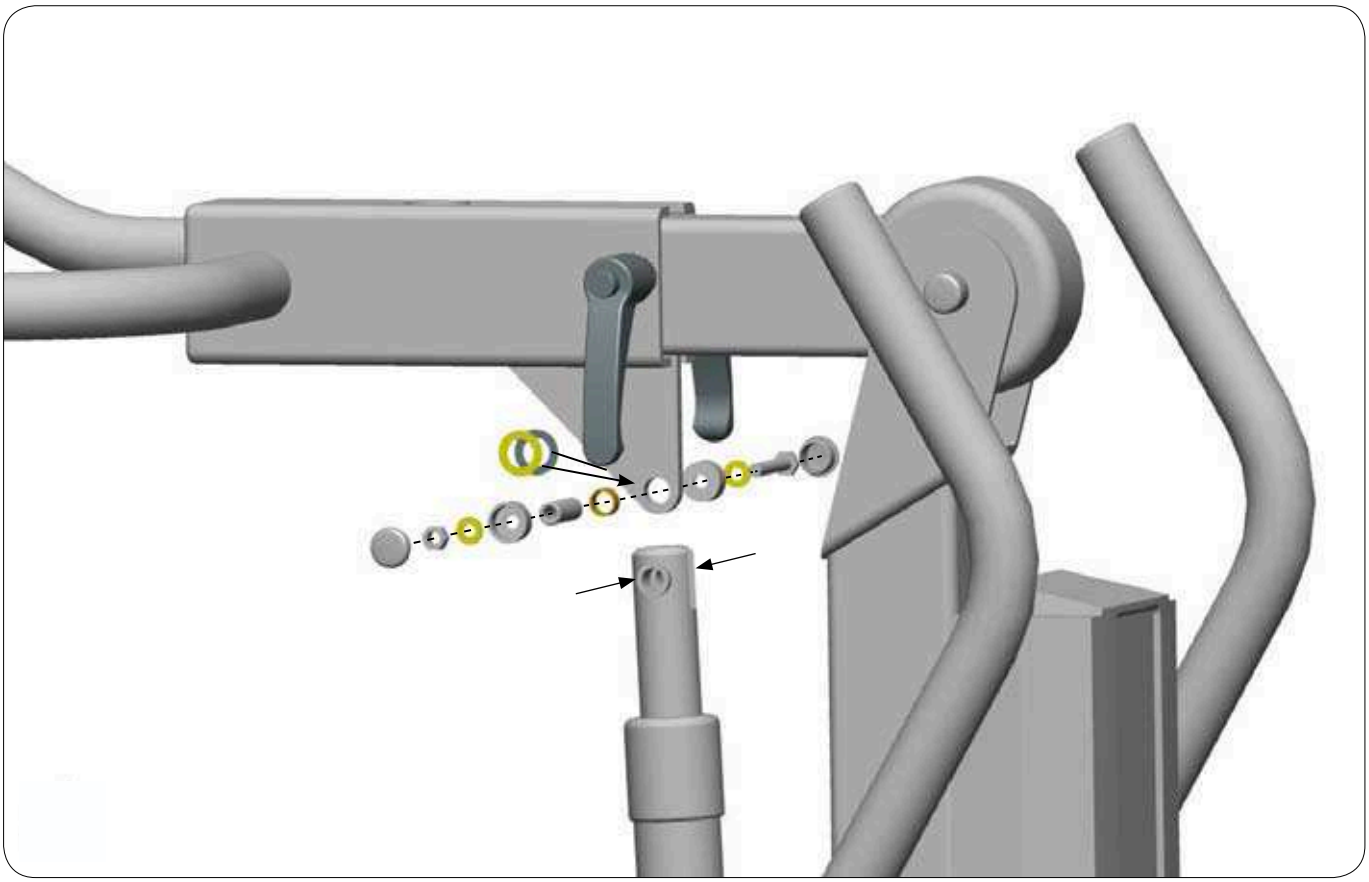
Contains:	**Qty:**
Cover hat Liko	2
Cover hat Liko bottom	2
Sleeve bearing Mob.30	1
Nylon bearing 10x12x6	1
Locking nut M6 Nyloc	1
Screw M6S M6x40	1
Washer PS 6x12x1	2
Washer 12,5/20x0,42	2
Bush Piston LA34	2

Fits:
Sabina II EE, EM

Tools required:

2x 10mm

2x 17mm



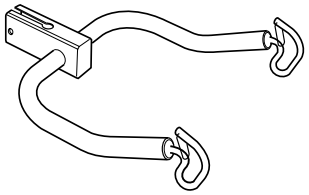
⚠ NOTE
- Make sure the spare part is mounted according to the assembly instruction.
- Check all functions related to the changed spare part.
- Repairs and maintenance may only be performed by personnel authorized by Liko and using original Liko spare parts.

Sabina II 350 Slingbar, Sabina II Comfort Slingbar, Sabina Liftarm inkl. locking handles

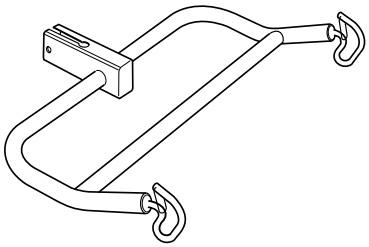
Sabina II 350 Lyftbygel, Sabina II Comfort Lyftbygel, Sabina Lyftarm med låsvred

Contains:
Innehåller:

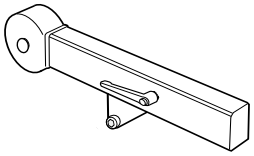
Prod. No. 2027002



Prod. No. 2027003



Prod. No. 2027010



Fits / Passar till: Sabina all models / samtliga modeller

Assembly Instruction
Monteringsanvisning

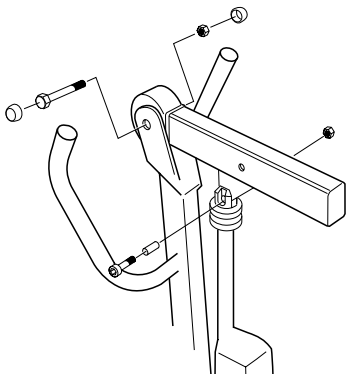
Prod. No. 2027002, 2027003, 2027010

7NN155205-01
2009-07-07

Tools required
Nödvändiga verktyg

2 x		17 mm
1 x		8 mm

1.



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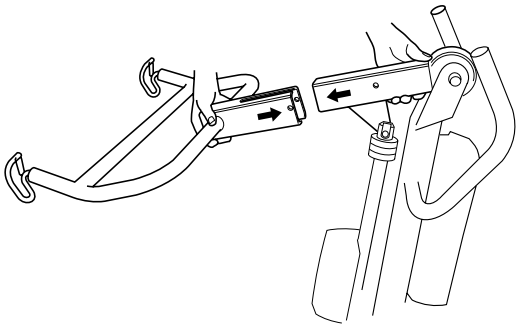

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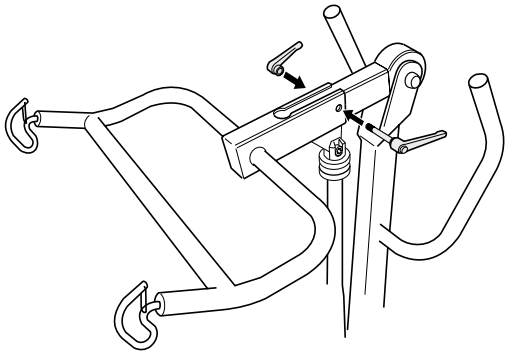

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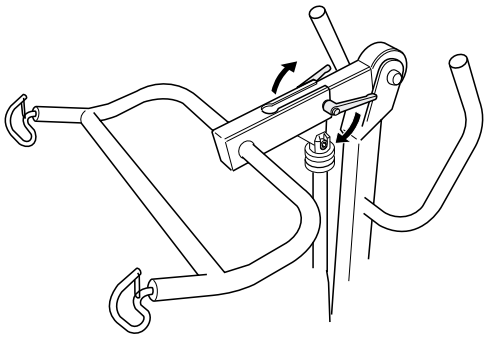
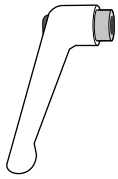


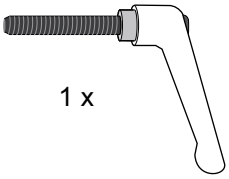
Assembly Instruction
Monteringsanvisning

Prod. No. 2107101

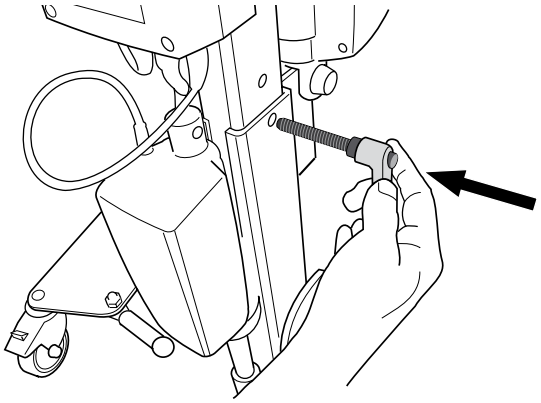
3SE650248-01
2009-09-25

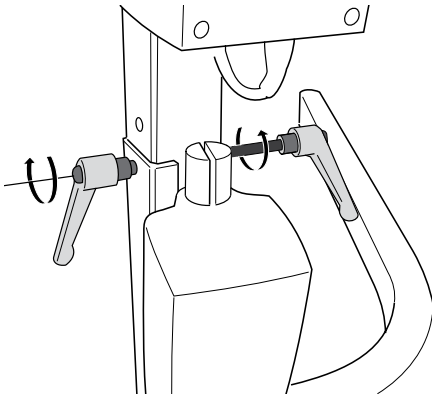
Contains:

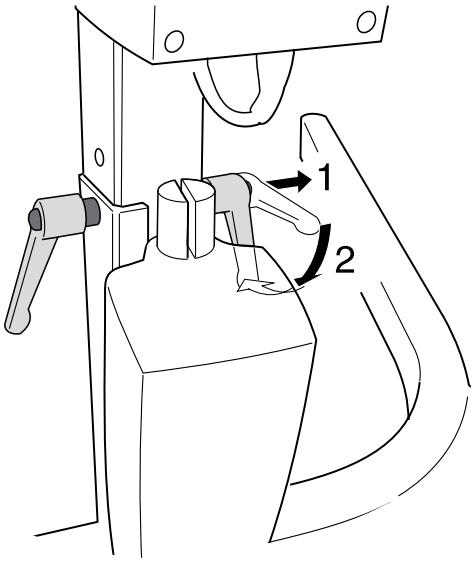
1 x 

1 x 

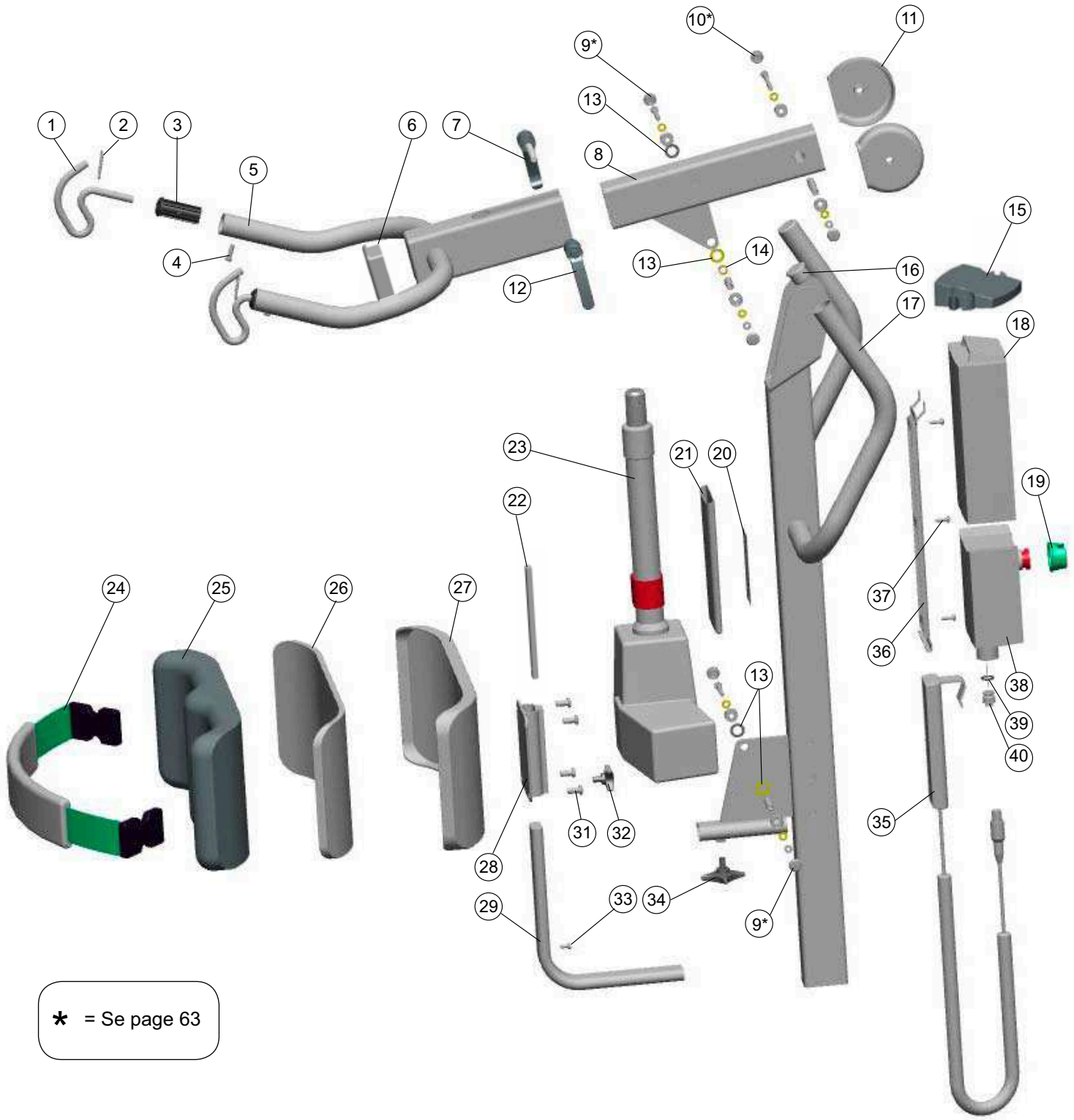
Fits:
Uno 100 (all models)
Uno 102 (all models)
Sabina (all models)
Viking (all models)
Caroli
Capella

1. 

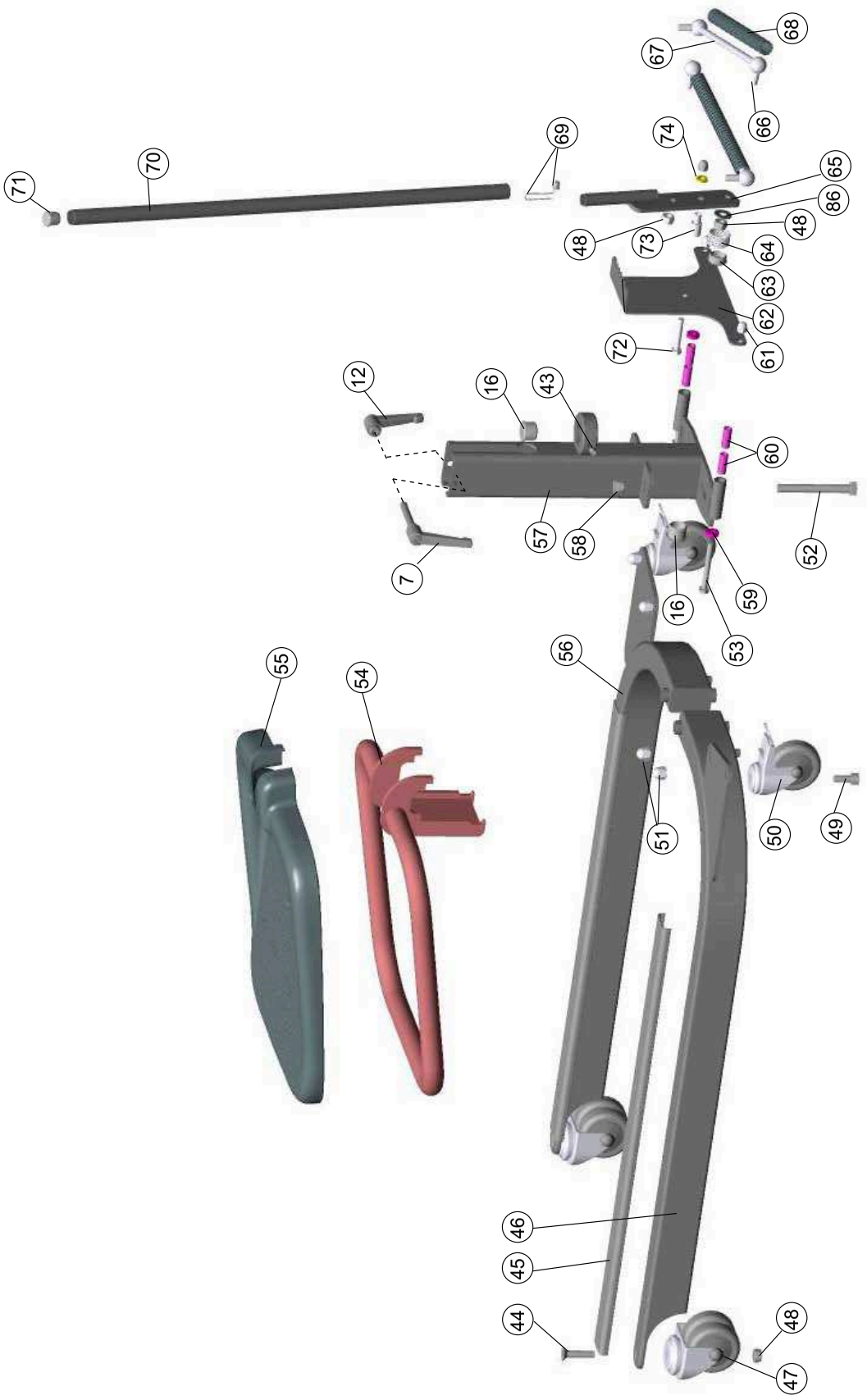
2. 

3. 

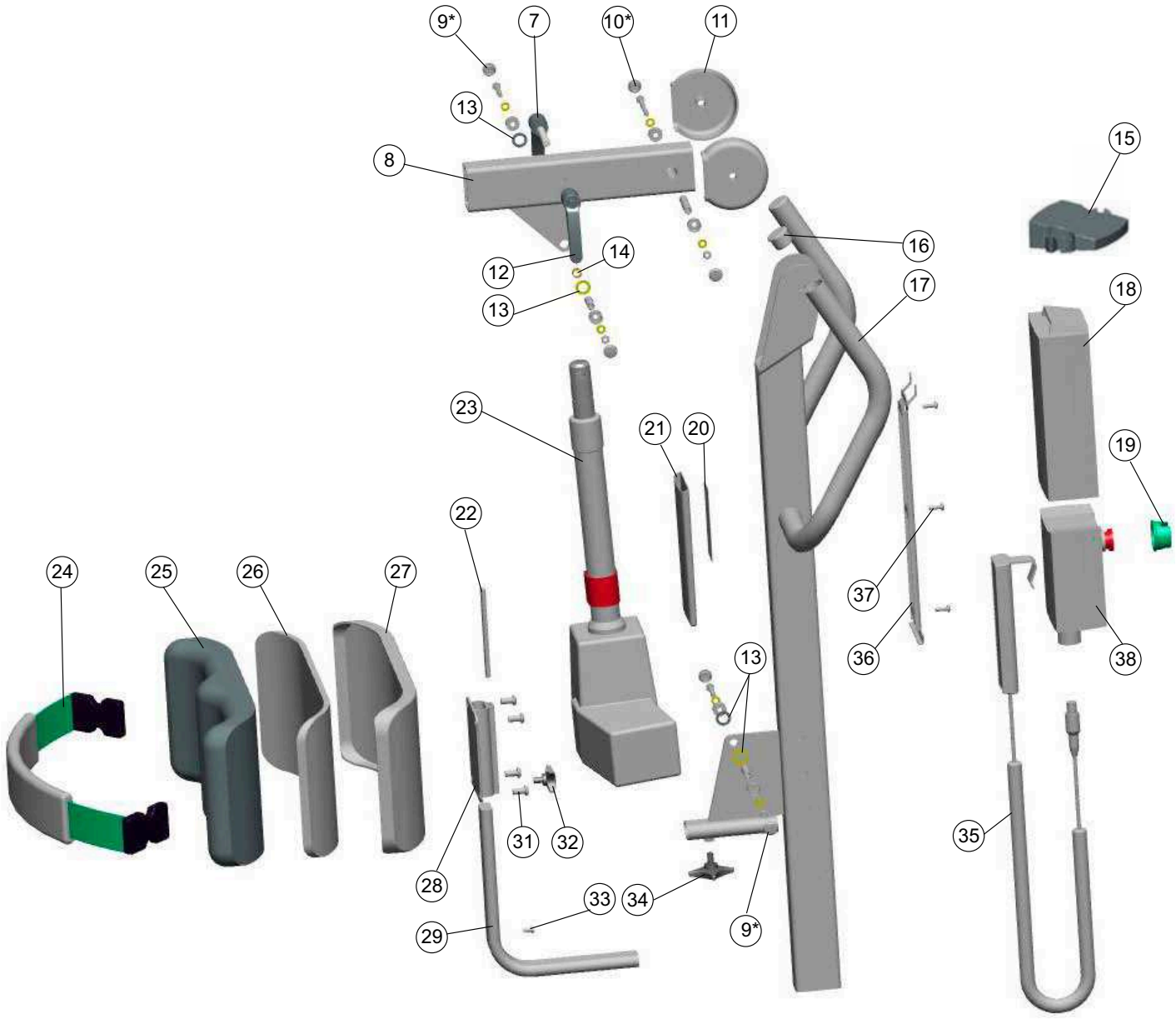
Exploded views
Mast Sabina II EM



Exploded views
Base Sabina II EM

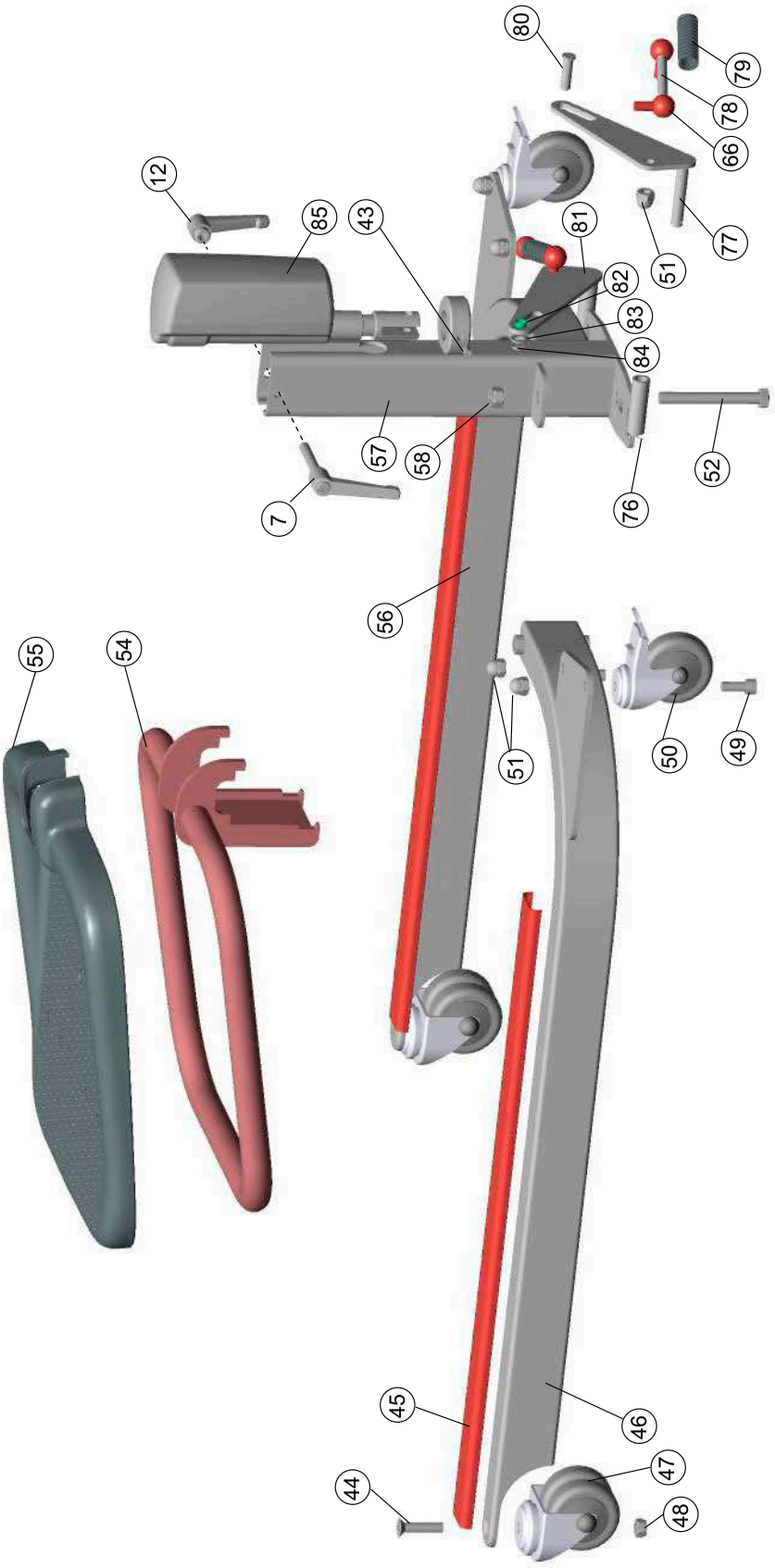


Exploded views
Mast Sabina II EE



* = Se page 63

Exploded views
Base Sabina II EE



Components

Sabina II EM Part.no. 2020004

Pos. No.	Name	Quantity
1	Lift Hook Sabina	2
2	Safety Latch	2
3	Hook casing di=24	2
4	Screw K6S M6x20 Ezloc	2
5	Arm Sabina II	1
6	Plastic cover IR50702-5G	1
7	Lever M10x60 grey	2
8	Lift arm Sabina II	1
9	Sleeve bearing 30	2
10	Sleeve bearing 54	1
11	Plastic cover mast	2
12	Lever M10 grey	2
13	Washer plastic 12,5/20x0,42	4
14	Nylon bearing 10x12x6	1
15	Charging cable Holder	1
16	Plastic cover IKP 30 26 G	4
17	Mast Sabina II	1
18	Battery box	1
19	Emergency guard	1
20	Tape 40x100 t=0.8	1
21	Holder	1
22	Locking rail Leg support	1
23	Actuator Sabina II	1
24	Strap f Leg support,Sa	1
25	Strap upholstery, Sa	1
26	Leg support board, Sa	1
27	Leg support cover, Sa plastic backing	1
28	Profile Leg support	1
29	Leg support curve Sabina	1
30	-	
31	Screw K6S M8x16	4
32	Star wheel SR4022 M6 15	1
33	Screw MC6S M5x10mm Low ez	1
34	Star wheel 6022 M8x15 gr	1
35	Handcontrol EM	1
36	Attachment control box	1
37	Screw MRT-GF M5x16	3
38	Controllbox Sabina II	1
39	O-ring set for CB12/14	1
40	Plug for hole CB12/14 gre	1

Components

Sabina II EM Part.no. 2020004

Pos. No.	Name	Quantity
43	Screw SK6SS M8x10	2
44	Screw F6S M10x40	2
45	Legprotection Sa/Uno L	2
46	Leg Sabina / Uno100 left	1
47	Front wheel 75mm	2
48	Locking nut M10 Nyloc	4
49	Screw MC6S M10x25	2
50	Rear wheel 75mm	2
51	Domed locking nut M10	4
52	Screw M6S M12x105	2
53	Screw M6S M8x75	2
54	Foot frame Sabina	1
55	Foot Tray Sabina II	1
56	Leg Sabina / Uno100 right	1
57	Center Sa / U1	1
58	Nut M12	2
59	Spacer 05x8x18x5	2
60	Distans 8x12x30 U102EM	4
61	Domed locking nut M8	2
62	Mounting plate	1
63	Plastic cover IKPT 2528G	1
64	Pressure spring 3x25x30	1
65	Turnable plate U102EM	1
66	Ball coupling M10	4
67	Screw PSH M10x165	2
68	Plastic tube	0,32 m
69	Pin with snapping	1
70	Uno EM handle	1
71	Plastic cover IK 22 19 G	1
72	Screw M6S M8x50	1
73	Center casing U102 EM	1
74	Washer TBRB 8,4/16x3	1
86	Washer NB 10x25x1,5	1

Components

Sabina II EE Part.no.2020003

Pos. No.	Name	Quantity
-		
7	Lever M10x60 grey	2
8	Lift arm Sabina II	1
9	Sleeve bearing 30	2
10	Sleeve bearing 54	1
11	Plastic cover mast	2
12	Lever M10 grey	2
13	Washer plastic 12,5/20x0,42	4
14	Nylon bearing 10x12x6	1
15	Charging cable Holder	1
16	Plastic cover IKP 30 26 G	4
17	Mast Sabina II	1
18	Battery box	1
19	Emergency guard	1
20	Tape 40x100 t=0.8	1
21	Holder	1
22	Locking rail Leg support	1
23	Actuator Sabina II	1
24	Strap f Leg support,Sa	1
25	Strap upholstery, Sa	1
26	Leg support board, Sa	1
27	Leg support cover, Sa plastic backing	1
28	Profile Leg support	1
29	Leg support curve Sabina	1
30		
31	Screw K6S M8x16	4
32	Star wheel SR4022 M6 15	1
33	Screw MC6S M5x10mm Low ez	1
34	Star wheel 6022 M8x15 gr	1
35	Handcontrol EM	1
36	Attachment control box	1
37	Screw MRT-GF M5x16	3
38	Controllbox Sabina II	1
39		
40		
41		
42		

Components

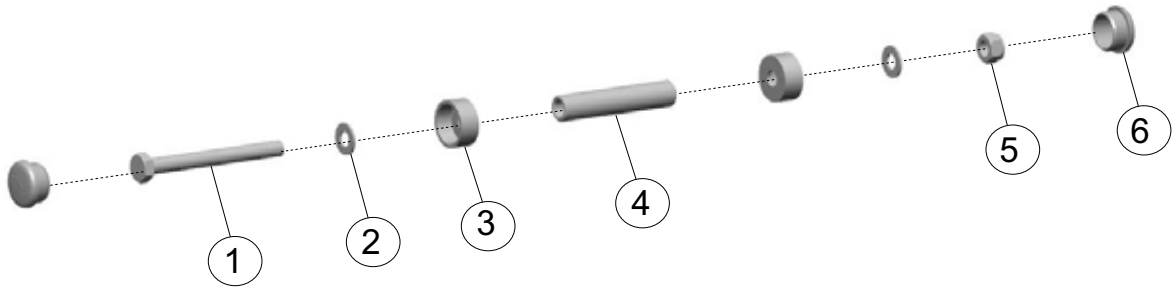
Sabina II EE Part.no.2020003

Pos. No.	Name	Quantity
43	Screw SK6SS M8x10	2
44	Screw F6S M10x40	2
45	Legprotection Sa/Uno L	2
46	Leg Sabina / Uno100 left	1
47	Front wheel 75mm	2
48	Locking nut M10 Nyloc	4
49	Screw MC6S M10x25	2
50	Rear wheel 75mm	2
51	Domed locking nut M10	4
52	Screw M6S M12x105	2
54	Foot frame Sabina	1
55	Foot Tray Sabina II	1
56	Leg Sabina / Uno100 right	1
57	Center Sa / U1	1
58	Nut M12	2
66	Ball coupling M10	4
76	Split Pin SP 3,2x20	2
77	Jointed arm left	1
78	PSH M10x40, fzb	2
79	Cover tube (black)	0,12m
80	Cylindric bolt HCB 10x35	1
81	Jointed arm right	1
82	Bearing 103-10-12 Uno	1
83	Washer Din433 10,5x18x1,6	1
84	Split Pin SP 2,5x16	1
85	Actuator LA28 grey U102	1

Components

Sleeve bearing 30

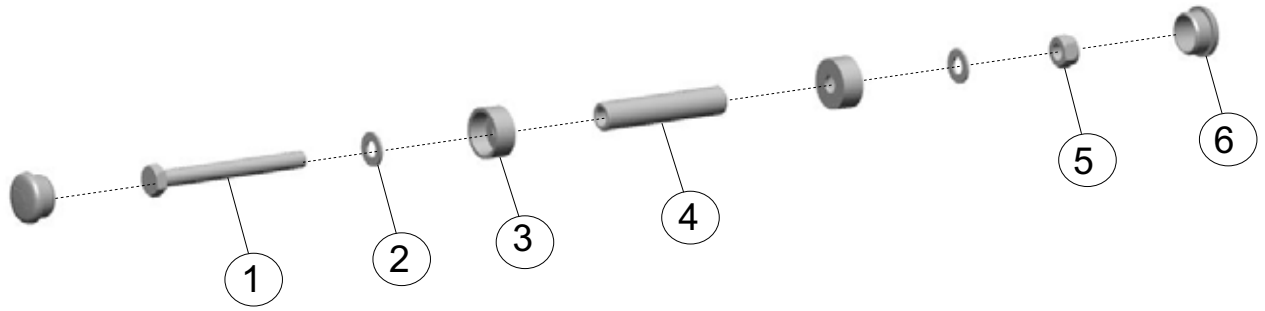
Position 9 (page 73 and 79)



1	Screw M6S M6x40	1	st
2	Washer TBRB 6x12x1	2	st
3	Cover hat Liko bottom	2	st
4	Sleeve bearing Mob.30	1	st
5	Lock nut M6 Nyloc	1	st
6	Cover hat Liko	2	st

Sleeve bearing 52

Position 10 (page 73 and 79)



1	Screw M6S M6x65	1	st
2	Washer TBRB 6x12x1	2	st
3	Cover hat Liko bottom	2	st
4	Sleeve bearing Mob.52	1	st
5	Lock nut M6 Nyloc	1	st
6	Cover hat Liko	2	st

Liko
A Hill-Rom Company

Sabina II EM

Decal Instruction
Dekalanvisning

Prod. No. 2020004

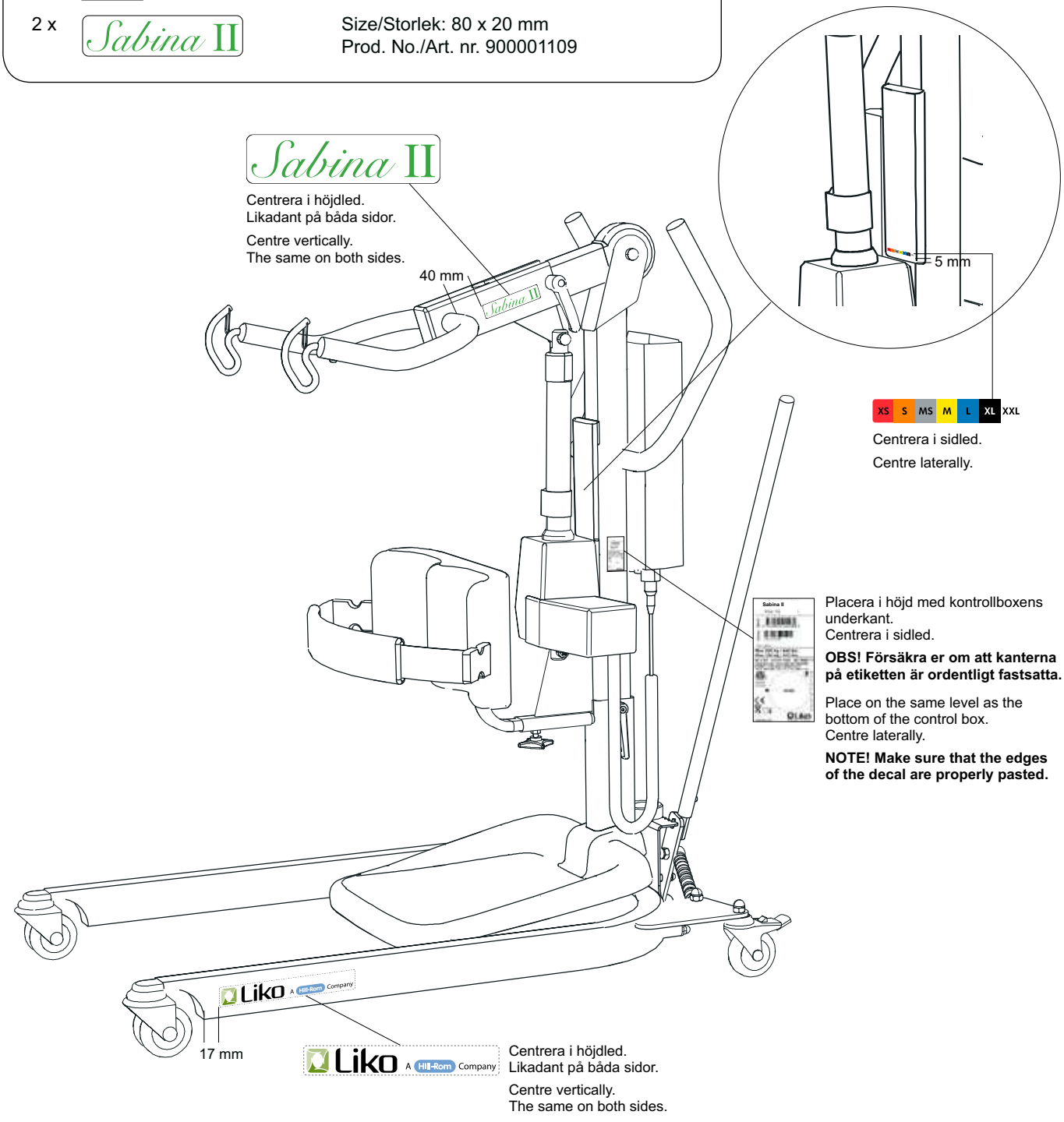
7SE155202-04
2010-02-15

2 x Liko A Hill-Rom Company
Size/Storlek: 159 x 24 mm
Prod. No./Art. nr. 900002231

1 x XS S MS M L XL XXL
Size/Storlek: 70 x 11 mm
Prod. No./Art. nr. 900002233

1 x
Size/Storlek: 107 x 52 mm
Prod. No./Art. nr. 900001457
Layout: layout_PE6_Samhall

2 x Sabina II
Size/Storlek: 80 x 20 mm
Prod. No./Art. nr. 900001109


Sabina II
Centrera i höjdled.
Likadant på båda sidor.
Centre vertically.
The same on both sides.
40 mm
5 mm
XS S MS M L XL XXL
Centrera i sidled.
Centre laterally.
Placera i höjd med kontrollboxens underkant.
Centrera i sidled.
OBS! Försäkra er om att kanterna på etiketten är ordentligt fastsatta.
Place on the same level as the bottom of the control box.
Centre laterally.
NOTE! Make sure that the edges of the decal are properly pasted.
Liko A Hill-Rom Company
17 mm
Liko A Hill-Rom Company
Centrera i höjdled.
Likadant på båda sidor.
Centre vertically.
The same on both sides.

Decal Instruction
Dekalanvisning

Prod. No. 2020003

7SE155201-04
2009-12-08

2 x

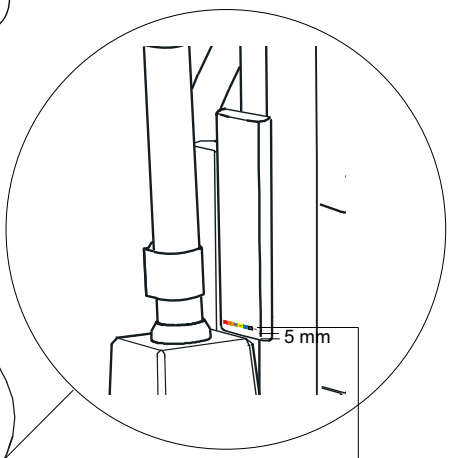
Size/Storlek: 159 x 24 mm
Prod. No./Art. nr. 900002231

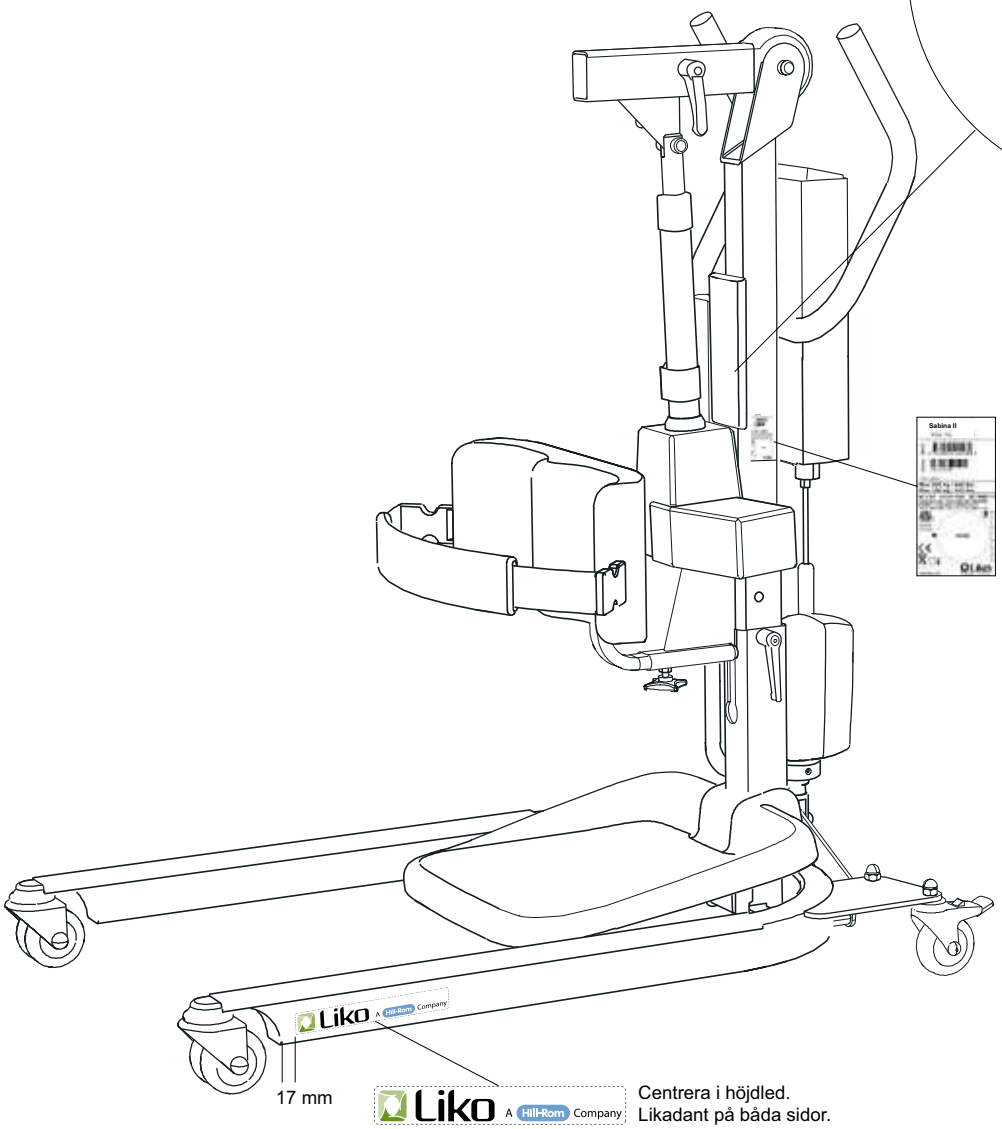
1 x

Size/Storlek: 70 x 11 mm
Prod. No./Art. nr. 900002233

1 x

Size/Storlek: 107 x 52 mm
Prod. No./Art. nr. 900001457
Layout: layout_PE6_Samhall





Centrera i sidled.
Centre laterally.

Placera i höjd med kontrollboxens underkant.
Centrera i sidled.

OBS! Försäkra er om att kanterna på etiketten är ordentligt fastsatta.

Place on the same level as the bottom of the control box.
Centre laterally.

NOTE! Make sure that the edges of the decal are properly pasted.

Centrera i höjdled.
Likadant på båda sidor.

Centre vertically.
The same on both sides.

Liko
A Hill-Rom Company

Sabina EE/EM, Sabina II EE/EM, Sabina Comfort, Sabina 200

Periodic Inspection

Prod. No. EE: 2020001, EM: 2020002 , II EE: 2020003, II EM: 2020004, Comfort: 2020005, 200: 2020020

2010-03-26

Lift type:	**Customer Reference:**
Prod. No:	Contract No: .....
S/N:	Name: .....
Prod. Year:	Address: .....
	(Zip Code) .....

The Lift must be thoroughly inspected at least once per year.
Inspection and service must be carried by Liko authorized personnel. Instructions for check points, from next page.

Check points:

	Approved	To be actioned	Not approved	Comments:
Base				
1(a) General inspection	☐	☐	☐	.....
2 Type/model identification decal	☐	☐	☐	.....
3 Castor wheels	☐	☐	☐	.....
4 Castor brakes	☐	☐	☐	.....
5 Base opening and closing linkage	☐	☐	☐	.....
6 Base frame castor play & levelling				
7 Foot tray	☐	☐	☐	.....
Mast				
8 Locking handles	☐	☐	☐	.....
9 Lift arm hardware & covers	☐	☐	☐	.....
10 Sling bar with safety latches	☐	☐	☐	.....
11 Adjustable lower-leg support	☐	☐	☐	.....
12 Mast actuator	☐	☐	☐	.....
13 Battery & electrical cable installations	☐	☐	☐	.....
14 Functions on the hand control	☐	☐	☐	.....
15 Emergency Stop function	☐	☐	☐	.....
16 Electrical emergency-lowering	☐	☐	☐	.....
device functions	☐	☐	☐	.....
17 Charger function	☐	☐	☐	.....
Load testing				
18 Load Test	☐	☐	☐	.....
Documentation				
19 Instructions / Instruction guide	☐	☐	☐	.....

Approval to use the patient lift ☐ Approved ☐ To be actioned ☐ Not approved

If the patient lift has one or more check points with result “Not approved” the system must not be used. If the system has one or more check points with result “To be actioned” these actions should be performed immediately. After performed actions sign below. If anything is unclear or if you have questions, please contact Liko or your local Liko representative. Contact information is to be found at www.liko.com.

Inspection performed by: _____ **Date:** _____

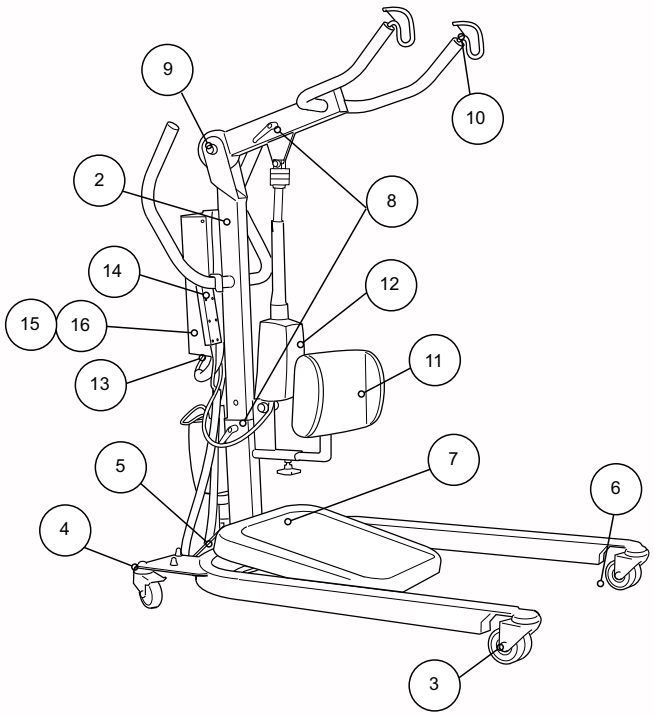
Final approval by: _____ **Approval date:** _____

Next inspection: _____

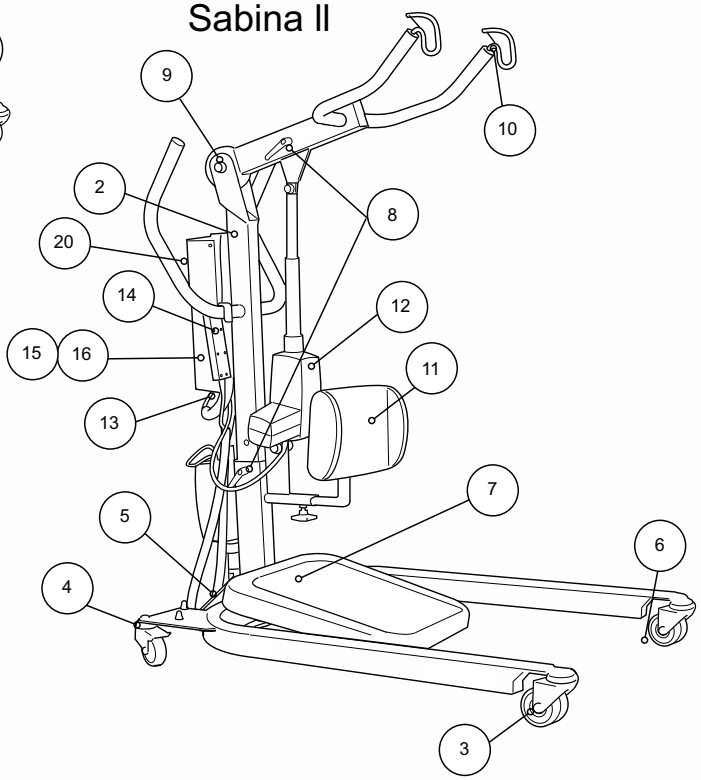
Inspection performed in accordance with ISO 10535:2006 Annex B- Periodic inspection

Check points

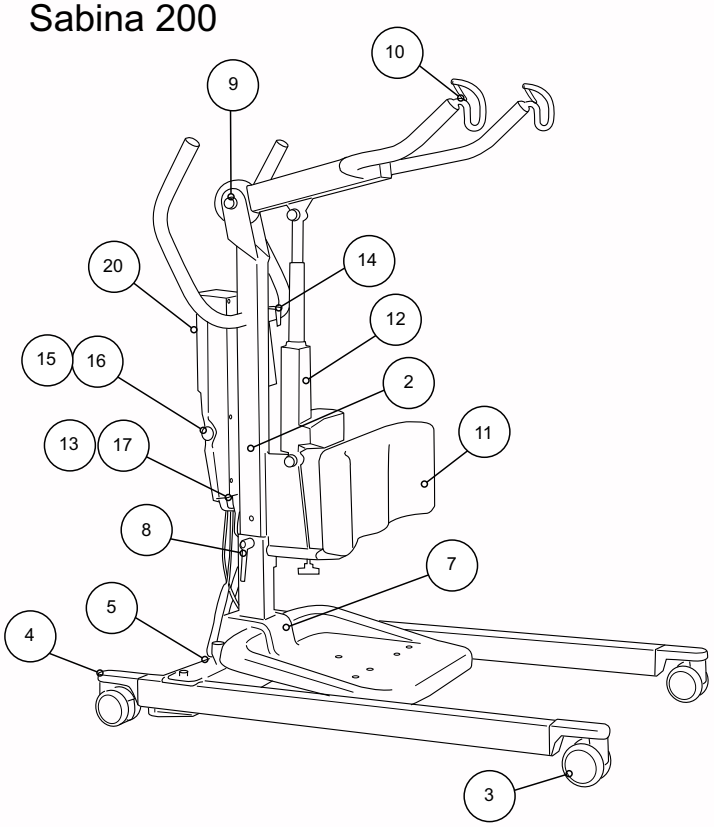
Sabina / Sabina Comfort



Sabina II



Sabina 200



Instructions for the check points

1(a&b) General inspection
- Check for scratches, dents, deformities or unusual surface wear.
- On mast, inspect weld at leg support tube.

2 Type/model identification decal
- Verify presence of mast decal with model type and serial number.

3 Castor wheels
- Roll the lift, unloaded, along the floor, checking to ensure that all castors roll and turn freely.
- Verify that castor fasteners are tight.

4 Castor brakes
- Lock the brakes. Make sure the wheels do not turn and the castor housing does not swivel when the lift is pushed.

5 Base opening and closing linkage

Sabina / Sabina ll / Sabina Comfort:
- Verify that the M12 x 105mm pin bolt is secured with a nyloc nut or cotter/split pin in welded castle nut.

Manual Base EM:
- Inspect mounting plate teeth for wear
- Pull back on handle to check compression spring pressure. Turnable plate welding should secure in mounting plate teeth when the handle is released.
- Inspect linkage arms and ball coupling hardware
- Verify max. & min. dimensions. (Can be found in the Instruction Guide)

Electrical Base EE:
- Check that the set screws (2) in center section collar are tight.
- Inspect Pivot Arms, (left and right) for scratches/gouges.
- Inspect linkage arms and ball coupling hardware.
- Verify max. & min. dimensions. (Can be found in the Instruction Guide)

Sabina 200:
- Check that the screws and nuts in base motor are tight.
- Inspect the diagonal bar (Sabina 200)
- Inspect linkage and plastic covers.
- Verify max. & min. dimensions. (Can be found in the Instruction Guide)

6 Base frame castor play & levelling

Sabina / Sabina ll / Sabina Comfort:
- Roll the lift along a level floor surface and check to ensure that the distance between the wheels and the floor does not exceed 6 mm / 0.24 Inch.
- Manually open and close legs at the front casters to measure wheel play. Base width wheel play should not exceed 35 mm/1.38 Inch total.

7 Foot tray
- Inspect plastic Foot tray cover for cracks and secure fit on metal frame.
- Verify that the foot frame sits securely on base.

8 Locking handles
- Loosen & re tighten locking handles. Verify that threads are not damaged or binding.

Instructions for the check points

9 Lift arm hardware & covers
- Make sure the screw not is tightened too hard. The arm must not fasten in the top position.
- Inspect the plastic protective cover shells for cracks, deformation or gaps.

10 SlingBar with safety latches
- Inspect visually that the SlingBar is free from any scratches, sharp edges or deformities.
- Make sure that both safety latch clips are mounted and fall back against the body of the Lift hooks.
- Inspect both Lift hook screws. Make sure they are tightened.

11 Adjustable lower-leg support
- Verify that upper and lower locking knobs are tight.
- Inspect plastic backing for cracks.

Sabina / Sabina ll / Sabina Comfort:
- Inspect vinyl cushion cover for rips/ tears
- Inspect buckles for secure snap-fit within shin support strap.

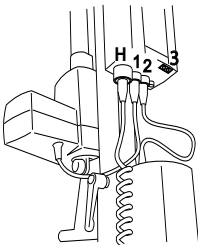
12 Mast actuator
- Verify that the upper and lower actuator fasteners to the mast are tight.
- Visual inspection of tubes, back fixture and piston rod eye.
- Check of abnormal noise level.

Sabina ll / Sabina 200:
- Check of electric end stop by using Service box (21090013(EU), 21090014 (UK), 21090015(US)).

13 Battery & electrical cable installations
- Verify battery charge (recharge battery or test with Prod. No. 2101100).
- Inspect that all cords are in the proper receptacles of the control box.

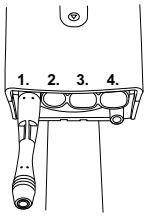
Sabina / Sabina Comfort / Sabina ll:

Hand control (large DIN receptacle, H)
Mast actuator (#1)
Base motor (#2)
Extension cord (#3) connected to the charging cable.



Sabina 200:

Charging cable (#1.)
Hand control (#2.)
Base motor (#3.)
Mast actuator (#4.)



14 Functions on the hand control
- With the emergency stop out, verify that all functions on the hand control are working.

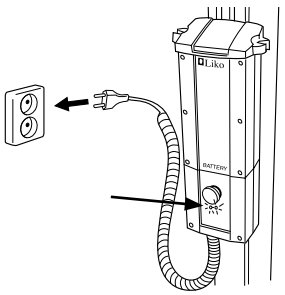
15 Emergency Stop function
- Press the emergency stop button. With the emergency stop pressed in, verify that the lift does not operate with the hand control buttons.
- Turn the red emergency button in the direction of the arrows. Verify that the button releases from the locked position into the raised, open position.

16 Electrical emergency-lowering device functions
- With the emergency stop out, verify that the electrical emergency-lowering device functions.

Instructions for the check points

17 Charger function

- With the emergency stop out, insert the charger cable into a power outlet (110-240 V AC). The yellow diode li on the control unit should light up.

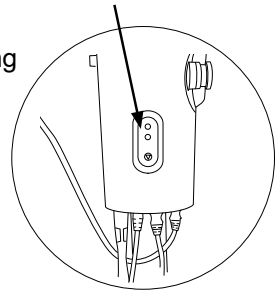


Sabina / Sabina Comfort / Sabina II:
Make sure that both indicator lamps on the charger are illuminated.

- yellow light during charging
- green light during maintenance charging.

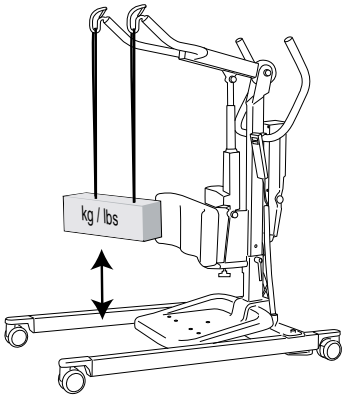
Sabina 200:
When the charger is connected a diode light at the charger indicates;

- yellow light during charging
- green light during maintenance charging



18 Load Test

- Run the lift with specified load* all the way up and down. Make sure the load is hanging straight down from the lift hooks, so they don't bend.
- Run the base in and out with specified load*.
- Listen for peculiar noises and vibrations.



Test load*:		
Sabina / Sabina Comfort:	Sabina II:	Sabina 200:
150kg / 330lbs	150kg / 330lbs	120 kg / 265 lbs

19 Documentation

- Instructions/Instruction guide

Sabina II (from S/N 452000) / Sabina 200: Quick Reference Guide shall be placed in the intended holder on control unit.

Liko

Sabina EE, EM / Sabina II EE, EM
Preventative Maintenance

3EN551101-03
2007-06-19

Lift type:	
Serial No:	
Version:	
Prod. Year:	

Customer Reference:

Contract No:	
Name:	
Address:	
(Zip Code)	

	Base	**Month**	12	24	36	48	60	72	84	96	108	120
☐	1 Surface treatment		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
☐	2 Front castor cleaning		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
☐	3 Rear castor cleaning		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
☐	4 Pin bolt lubrication		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
☐	5 Actuator linkage		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
☐	A: Electric Base linkarm lubrication				☐			☐			☐	
☐	B: Mechanical Base, mounting plate inspection		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
	Mast											
☐	1 Surface treatment		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
☐	6 Lift arm		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
☐	7 Emergency-lowering device (Sabina EE, ES)		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
☐	8 Battery (check battery capacity)		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

When maintenance is performed; mark specified square with **"X"**
When part is replaced; mark specified square with **"R"**

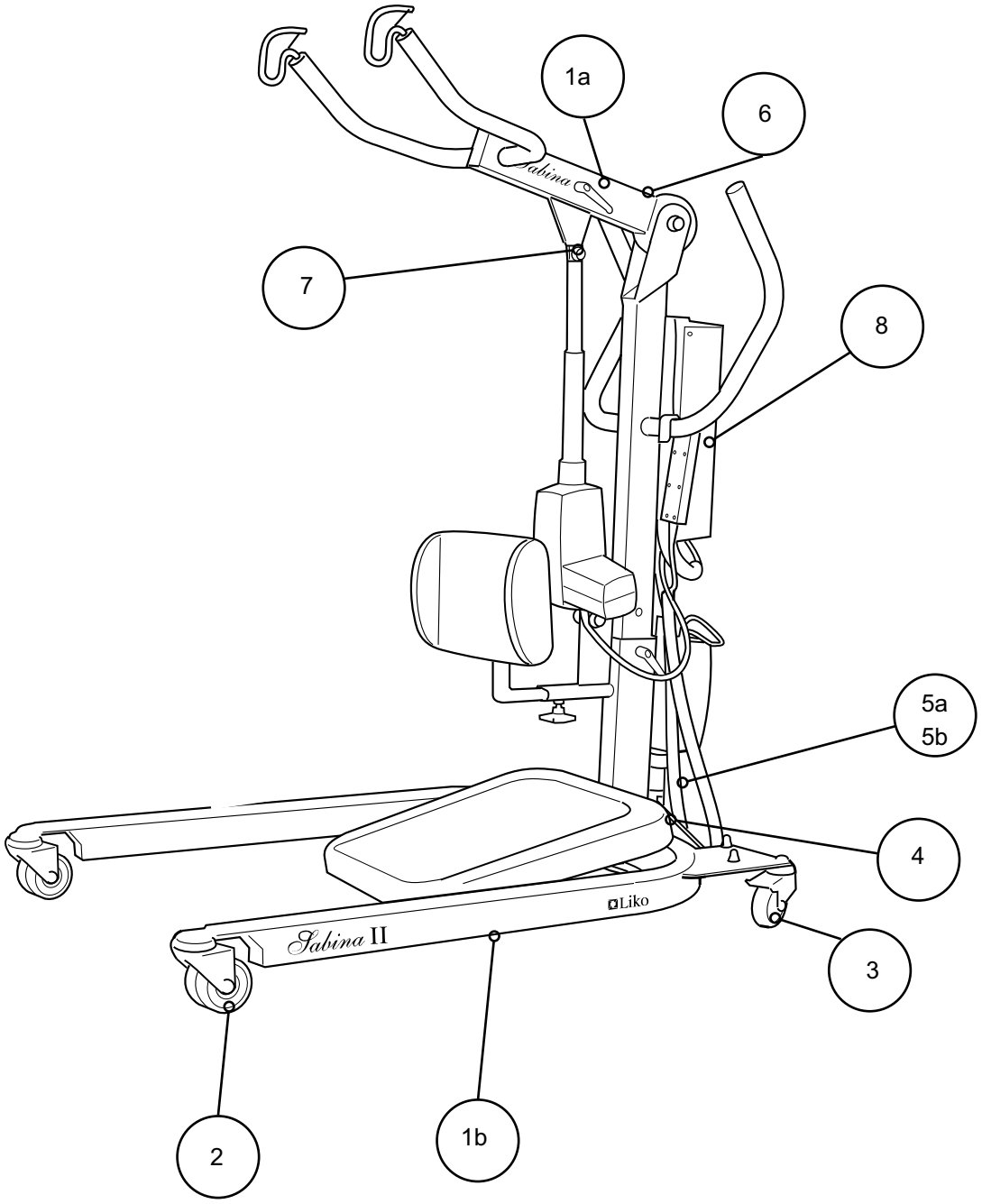
Lubricate with PTFE or silicon grease

Page 4 shows the check points locations.
Information reguarding the check points; from page 5 and forward.

Interval/Month: _____ Date:_____

Serviced by: _____

Check points

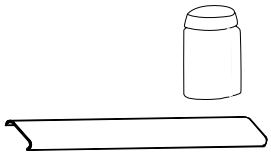


Instructions reguarding the check pionts for Sabina EE, EM / Sabina II EE, EM

Surface treatment

Lift type:	Serial No:	Prod. Year:	Contract No:
			Name:
Month 12 24 36 48 60 72 84 96 108 120			Address:
Check: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐			(Zip Code)

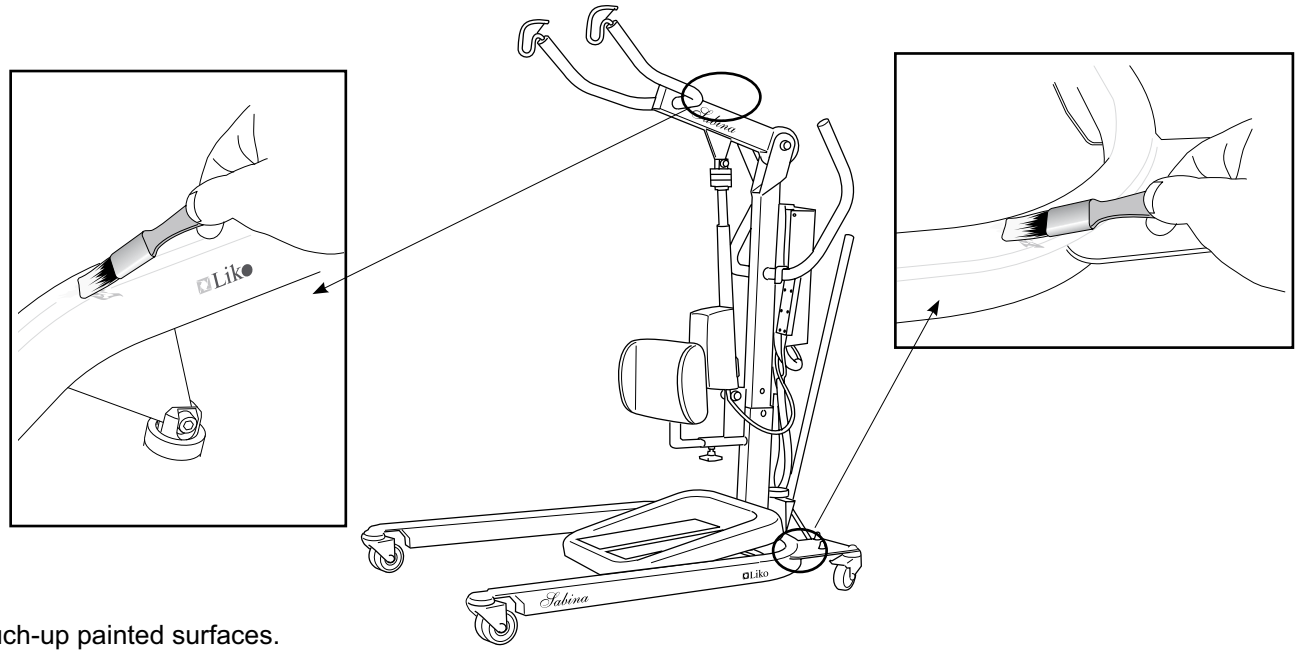
Tools required



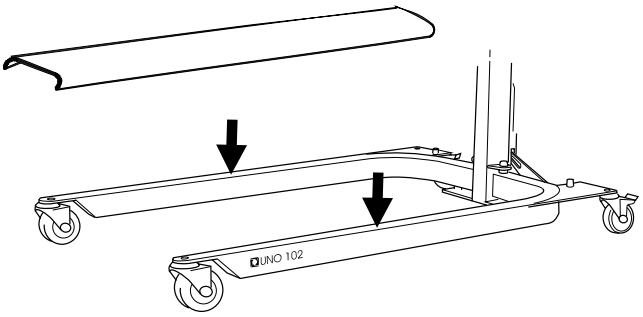
Product No: 20190048

Product No: 20190029

1. If needed, clean the patient lift with warm water or ethanol.
Warning! Do not use chemicals containing phenol or chlorine, since the aluminium parts may be damaged.



2.Touch-up painted surfaces.



3. Replace broken / missing leg protectors

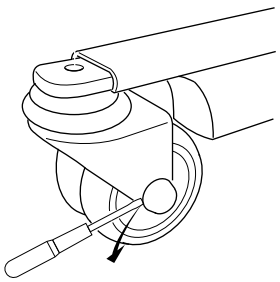
Instructions reguarding the check pionts for Sabina EE, EM / Sabina II EE, EM

Front castor cleaning

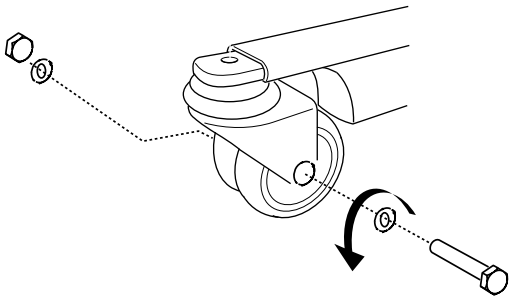
Lift type:	Serial No:	Prod. Year:	Contract No:
			Name:
			Address:
			(Zip Code)

Month	12	24	36	48	60	72	84	96	108	120
Check:	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Replacement if worn					☐					☐

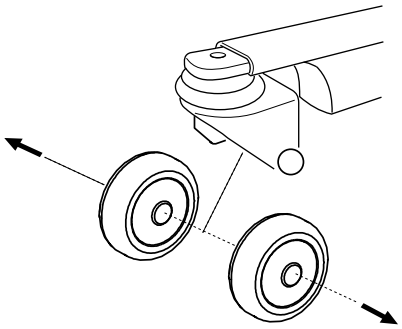
Tools required



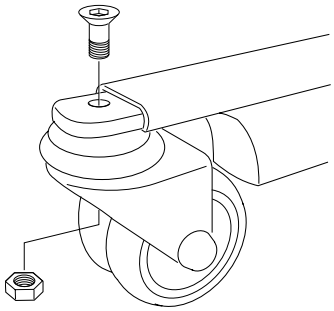
1. Remove cover.



2. Loosen and remove screw.



3. Remove and clean the castor wheels. Replace and tighten. Re-assemble in reverse order.



4. If wheels are worn or do not roll smoothly, replace them. Recommended replacement is every 5th year.

Instructions reguarding the check pionts for Sabina EE, EM / Sabina II EE, EM

Rear castor cleaning

Lift type:	Serial No:	Prod. Year:	Contract No:

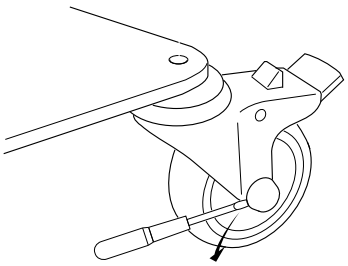
Name:

Address:

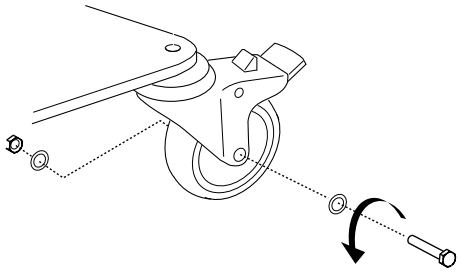
(Zip Code)

Month	12	24	36	48	60	72	84	96	108	120
Check:	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Replacement if worn					☐					☐

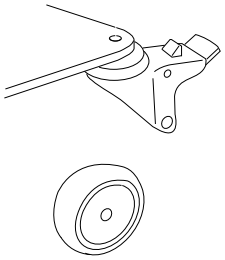
Tools required



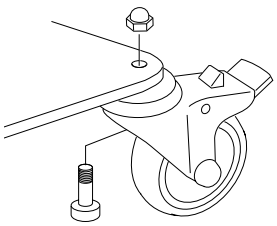
1. Remove cover.



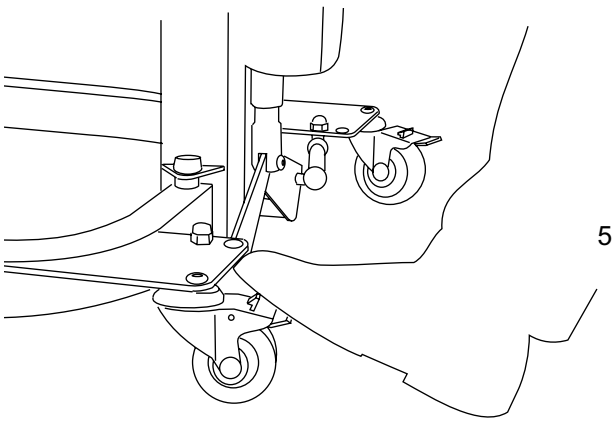
2. Loosen and remove screw.



3. Remove and clean the castor wheel and housing.
Re-assemble in reverse order.



4. If wheels are worn or do not roll smoothly, replace them.
Recommended replacement is every 5th year.



5. Check the brakes. They should lock in all directions.

Instructions reguarding the check pionts for Sabina EE, EM / Sabina II EE, EM

Pin bolt lubrication

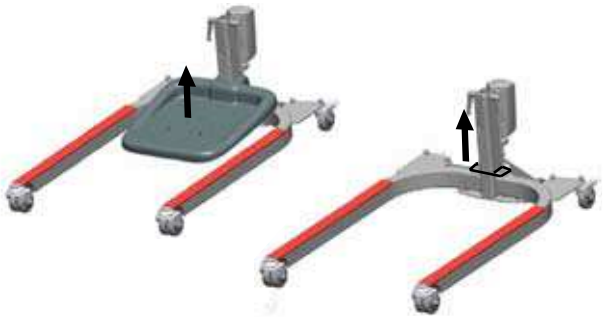
Lift type:	Serial No:	Prod. Year:	Contract No:

Month 12 24 36 48 60 72 84 96 108 120
Check: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

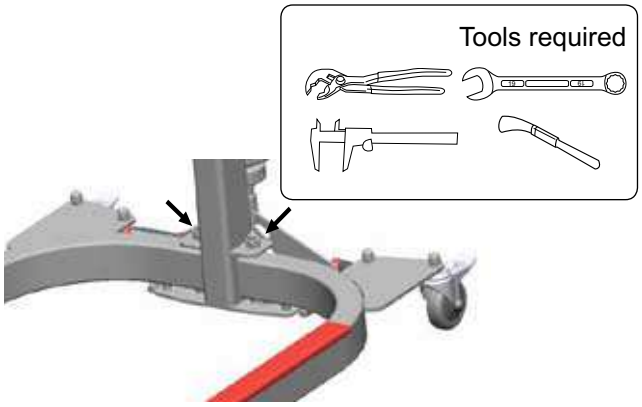
Name:

Address:

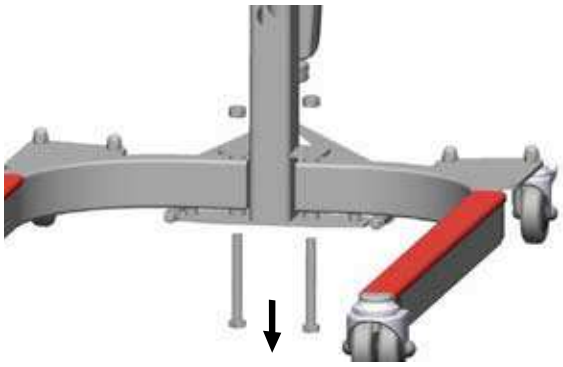
(Zip Code)



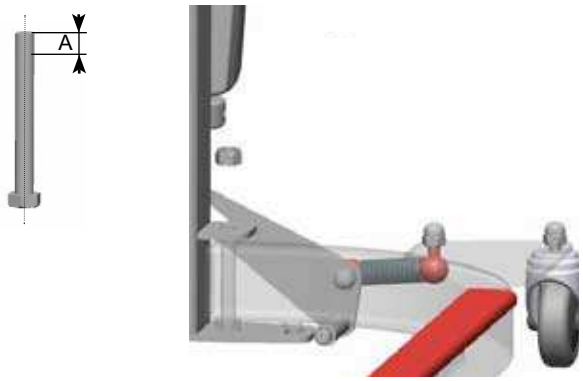
1. Remove footplate or plastic cover from center.



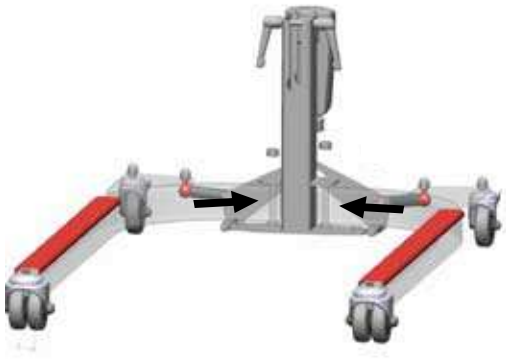
2. Remove pins or locking nuts.



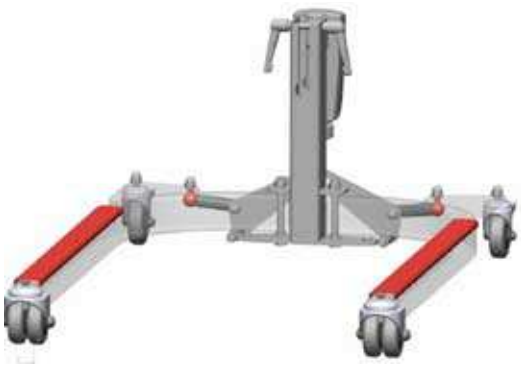
3. Pull out the pin bolts. Before cleaning and lubricating inspect the screw according to fig, 4 and 5.



4. Measure pin bolt thread dimension ”A”. If thread dimension “A” is not within 19±2 mm, replace pin bolt with part. No 20190057”.



5. Clean holes and pin bolts. If pin bolts are worn, replace with part. No. 20190057.
Lubricate the holes and the pin bolts.



6. Re-assemble base as in (Fig 3-2).
Tighten bolts and replace pins or locking nuts.

Instructions reguarding the check pionts for Sabina EE, EM / Sabina II EE, EM

Actuator linkage

Lift type:	Serial No:	Prod. Year:	Contract No:

Name:

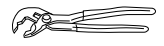
Address:

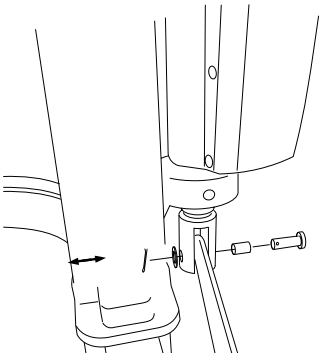
(Zip Code)

Month	12	24	36	48	60	72	84	96	108	120
Nr. 1:	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Nr. 2-7:			☐			☐			☐	

Electric base linkarm lubrication

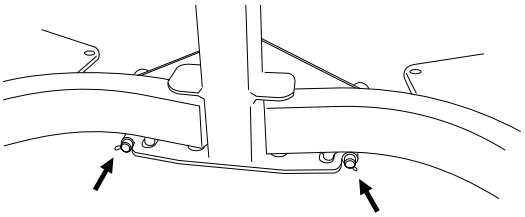
Tools required



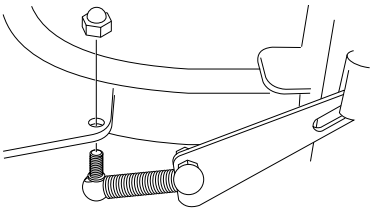


1. Remove splitpin, bolt and bushing. Lubricate center pin and plastic bushing. Replace if worn.

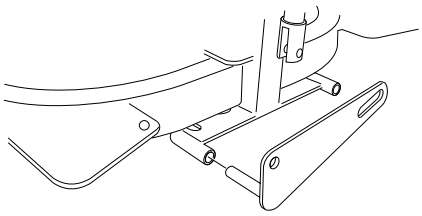
No. 1, every year



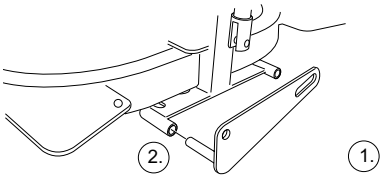
2. Remove splitpins.



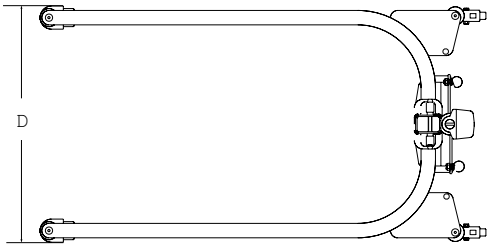
3. Remove locking nut on the link arms.



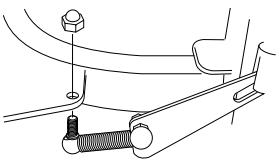
4. Pull out link arms.



5. Clean the link arms and hole in center. Start by brushing grease into the holes. Apply a thin layer of grease to the link arms. Re-assemble in reverse order.



6. Adjust base width (”D” in technical data).



7. Adjust the linkarms so that it goes up through the base at a 90-degree angle. Tighten locking nuts, check play after assembly.

No. 2-7, every 3rd year

Instructions reguarding the check pionts for Sabina EE, EM / Sabina II EE, EM

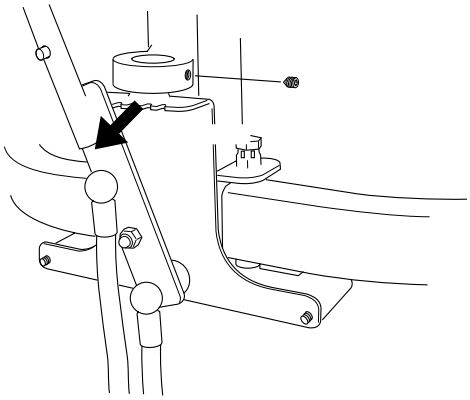
Actuator linkage

Lift type:	Serial No:	Prod. Year:	Contract No:
			Name:
			Address:
			(Zip Code)

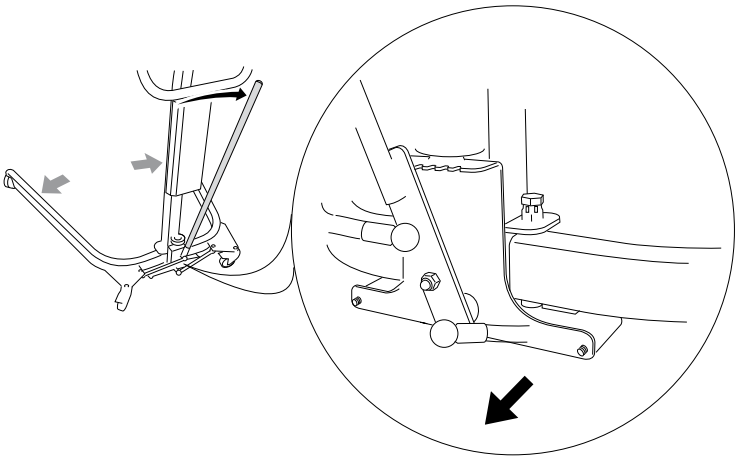
Month	12	24	36	48	60	72	84	96	108	120
Check:	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Replacement if worn					☐					☐

Tools required

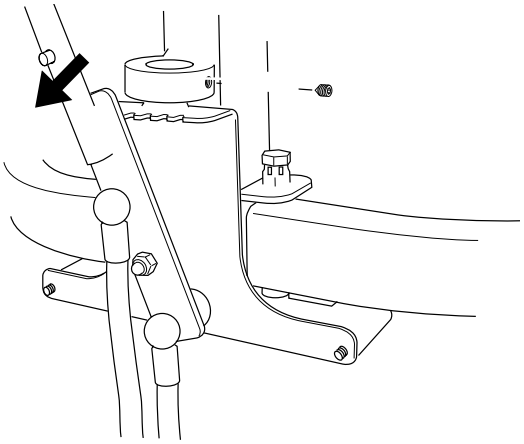
Mechanical base, mounting plate inspection



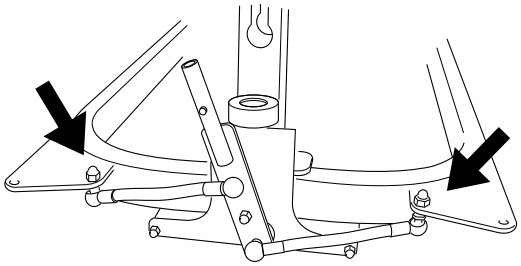
1. Replace mounting plate if teeth is worn.



2. Pull back the handle to check compression spring.



3. Ensure that the turnable plate welding is not bent and secures in turnable plate teeth when the handle is released.



4. Inspect linkage arms and ball coupling hardware.

Recommended replacement is every 5th year

Instructions reguarding the check pionts for Sabina EE, EM / Sabina II EE, EM

Lift arm

Lift type:	Serial No:	Prod. Year:	Contract No:

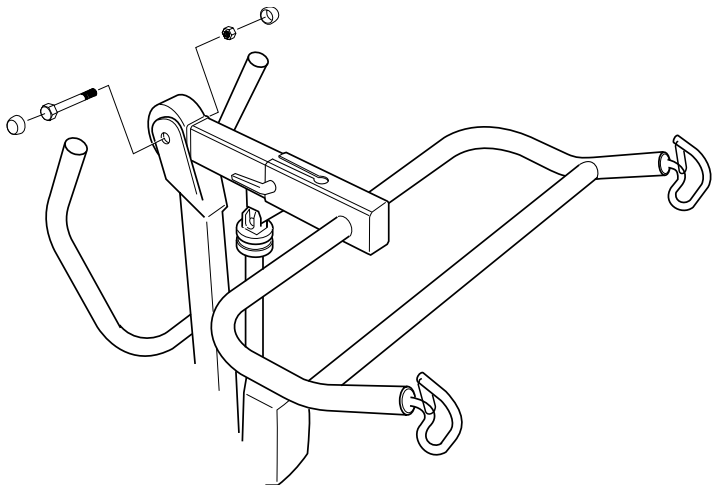
Month 12 24 36 48 60 72 84 96 108 120
Check: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

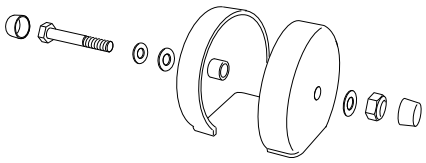
Name:

Address:

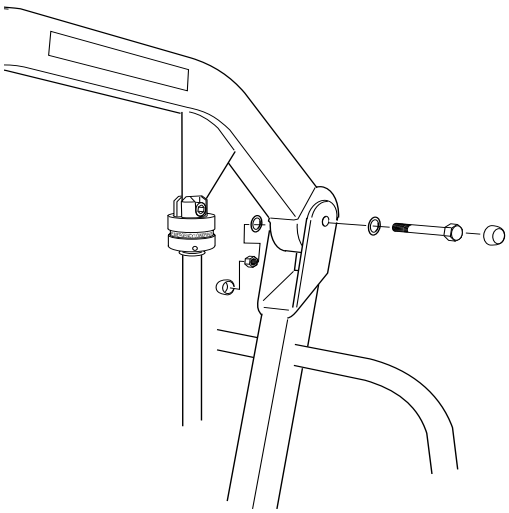
(Zip Code)

Tools required





1. Remove covers.



2. Remove and lubricate lift arm hardware. Visually inspect lift arm plastic shells for wear, cracks or deformation. Reassemble in reverse order.

3. Lift up the arm and check that the slot between plastic cover retains the same size, if not the screw is to tight. Release, so that it falls to the lowest position. If the arm does not fall to the lowest position, the screw is to tight.

Instructions reguarding the check pionts for Sabina EE, EM

Emergency-lowering device

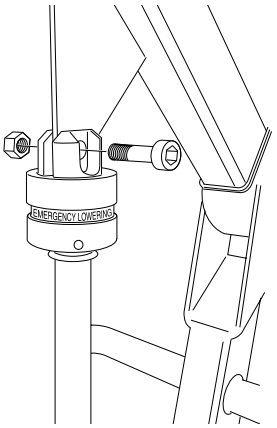
Lift type:	Serial No:	Prod. Year:	Contract No:

Name:

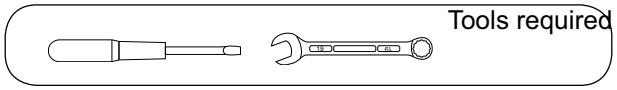
Address:

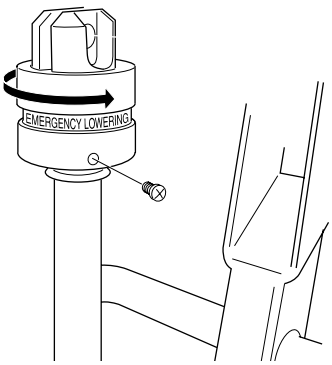
(Zip Code)

Month	12	24	36	48	60	72	84	96	108	120
Check:	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Replace emergency lowering rest. set			☐			☐			☐	

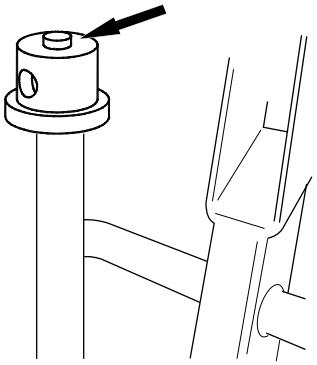


1. Loosen screws and remove cylinder.

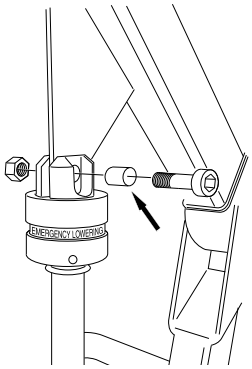




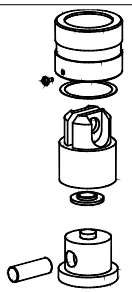
2. Remove the countersunk screw. Twist up the red cylinder. **NOTE!** Turn it slowly, to prevent damage to the threads.



3. Clean the cylinder.
△ △ ***NOTE! Keep this surface free of grease!***
Mount the new friction washer part. No. 20190051.



4. Clean sleeve and holes in the emergency-lowering device and lift arm. Lubricate sleeve with grease before re-assembly.



5. Re-assemble the emergency-lowering device according to 5.51 in the Service manual.

Replace emergency lowering restoration set every 3rd year.

Instructions reguarding the check pionts for Sabina EE, EM / Sabina II EE, EM

Battery

Lift type:	Serial No:	Prod. Year:	Contract No:

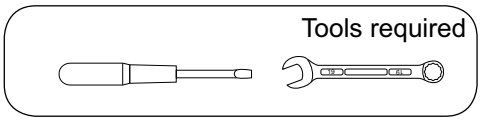
Month 12 24 36 48 60 72 84 96 108 120
Check: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
Replace battery ☐ ☐ ☐

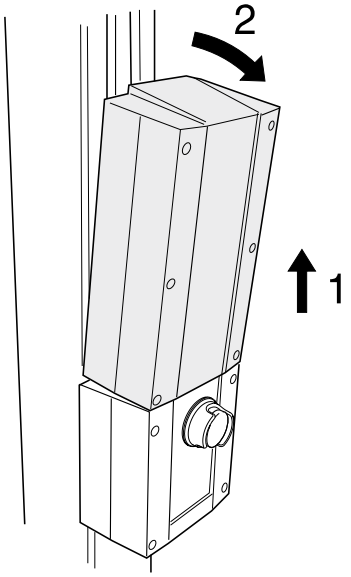
Name:

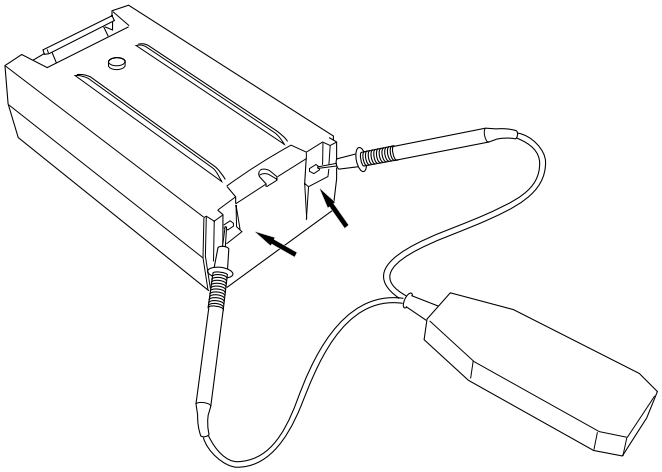
Address:

(Zip Code)

Tools required

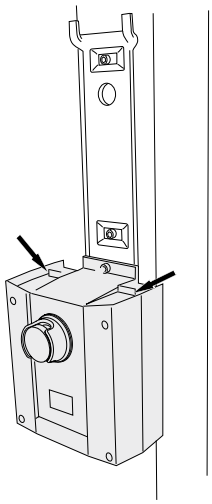


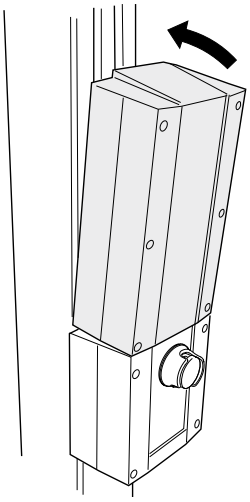




1. Remove the charger cable holder, then the battery.

2. Inspect V-shaped metal contacts on the batterypack casing for uniformity. Check the battery with the battery tester (part. No. 2101100). A signal should be audible for more than 5 sec. If not, replace battery (see 5.21 in the service manual).





3. Inspect V-shaped metal contacts on controlbox for uniformity. Verify that plastic housing for metal contacts is not damaged/deformed. Tighten screws.

4. Place the removable battery pack into position on top of the controlbox. Adjust until you hear a clicking sound.

Recommended replacement every 3rd year

Liko
A Hill-Rom Company

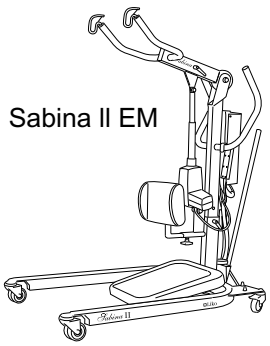
Sabina II EE, Sabina II EM

Product changes

Prod. No. 2020003(EE), 2020004(EM)

2010-03-30

Sabina II EE



Sabina II EM

2010

Changes	S/N	Project
Document update according to ISO10535: 2006	-	1059

2008

Changes	S/N	Project
New version of casings, mob 30 New pivot point arm-mast, mob 54 Holder for quick reference guide with colour codes for sling sizes, introduced New version of foot frame Two new screws at the mast - SK6SS M8x10 Emergency guard introduced	452000	749

2006

Changes	S/N	Project
Batterybox with display	423853	550
Batterybox without display	423704	550
New pivot points arm - actuator	421809	426

2005

Changes	S/N	Project
New locking handles	419031	-

Product changes

Prod. No. 2020003(EE), 2020004(EM)

2003

Changes	S/N	Project
New version of screw M6S M12x105	414443	-
Sabina II EM replaces Sabina EM	413621	-
Waxed inner packaging introduced, bubble plastic and foam discontinued	413373	-
New version of centre Locking nut M12 instead of welded castellated nut, EM	406485	-
New version of centre Locking nut M12 instead of welded castellated nut ,Sabina II	413260	-
Foot tray tested on every lift	412854	-
New serial number decal EM	406453	-
New serial number decal EE	412630	-

2002

Changes	S/N	Project
New colour coating on handcontrols	411496	-
Plastic spacer/washer 12.5/20x0.42 added to sleeve on emergency-lowering device EM	410702	-
S6SS M6x10 discontinued, mounted in the centre	410702	-
New screw on mast attach. MRT-GF M5x16	410702	-

2001

Changes	S/N	Project
Last Sabina in old style	406250	-
First Sabina II	410001	-